

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

Final EIR/EIS

Fresno to Bakersfield Section

Volume III:
Alignments and Other Plans

Section H
Roadway Structure Plans

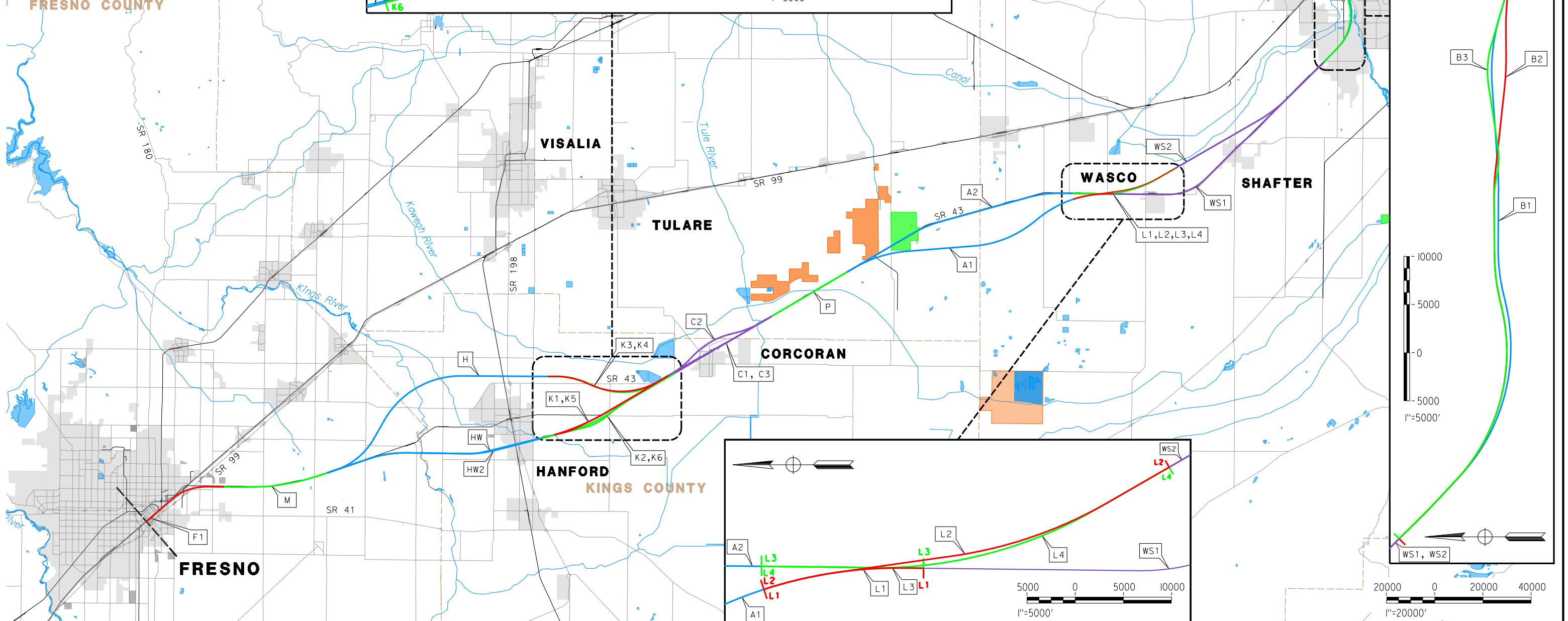
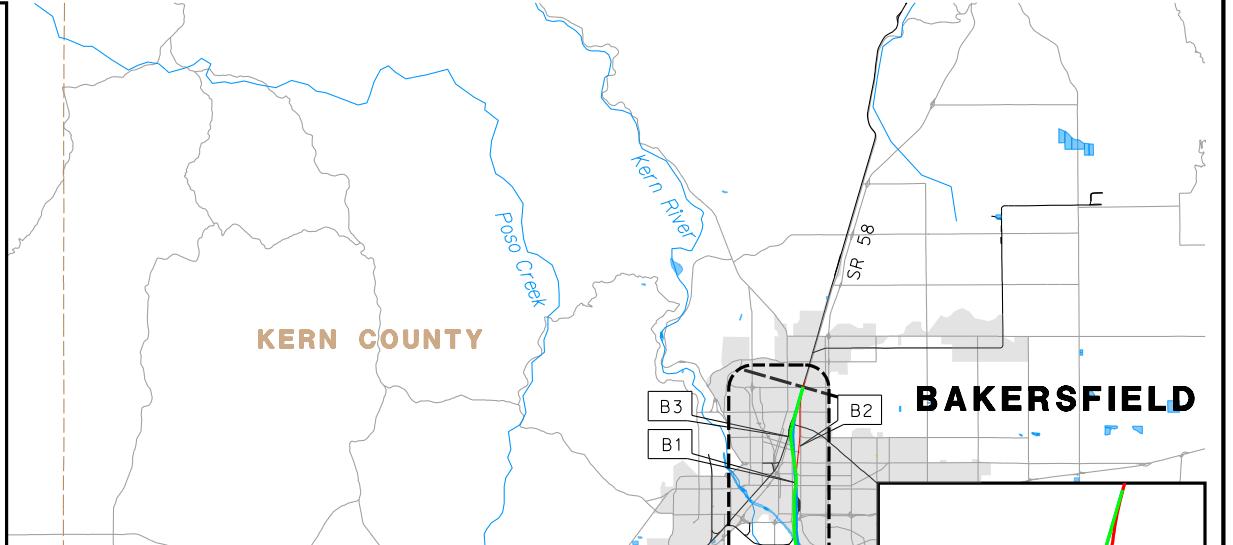
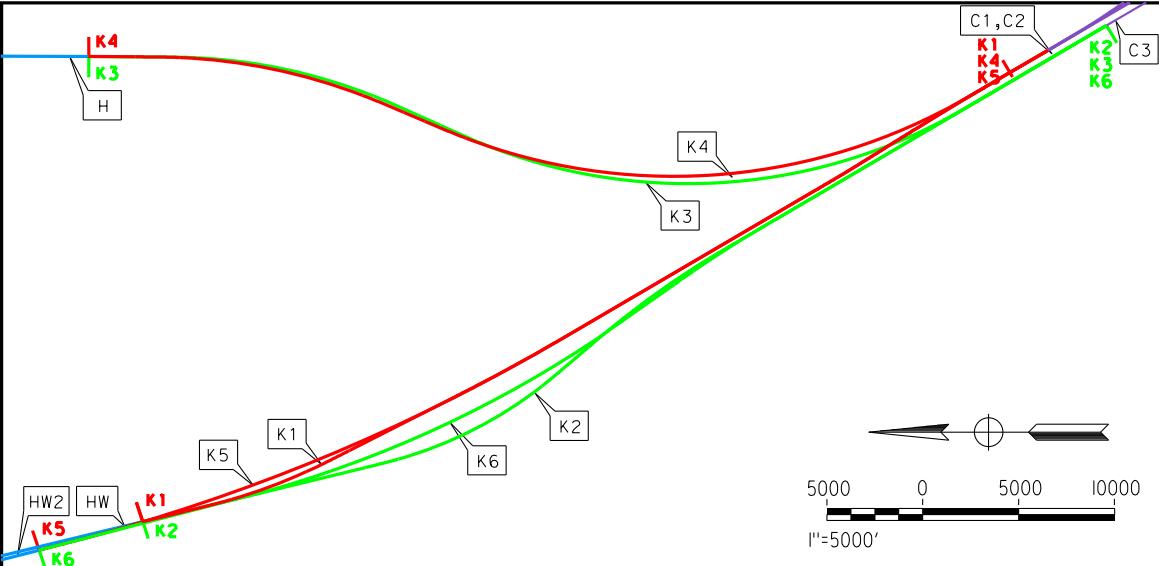
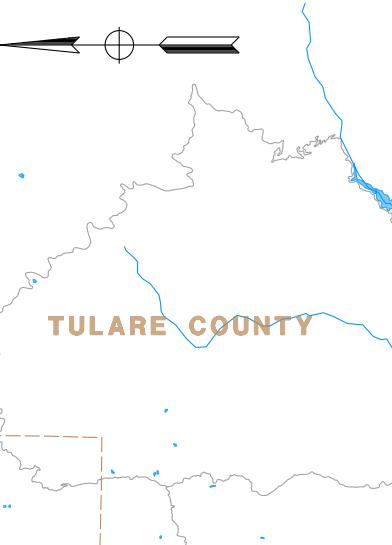
April 2014



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



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DESIGNED BY
K. SEYMOUR
DRAWN BY
P. TONKIN
CHECKED BY
D. HUNT
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
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CONSTRUCTION

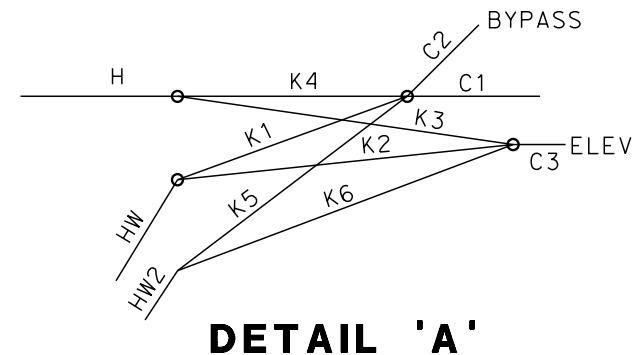


CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

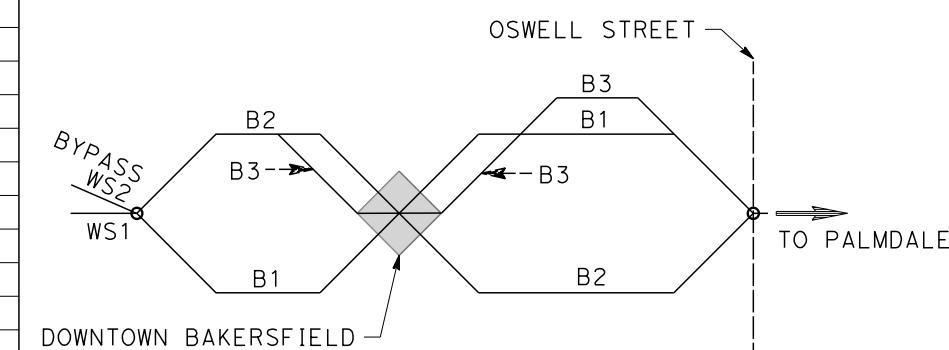
ALIGNMENT
LOCATION MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0001
SCALE
AS SHOWN
SHEET NO.
1 OF 7

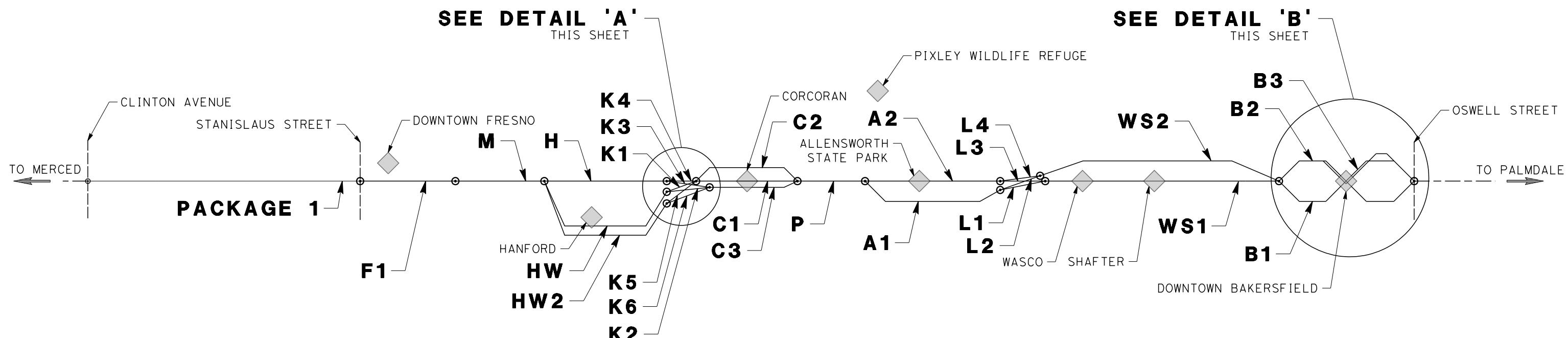
SUBSECTION CODE	NAME	LENGTH (MI)	EIR-EIS ALTERNATIVE
F1	FRESNO SUBSECTION	7.00	BNSF
M	MONMOUTH SUBSECTION	8.24	BNSF
H	HANFORD SUBSECTION	20.45	BNSF (HANFORD EAST)
HW	HANFORD WEST BYPASS SUBSECTION	18.27	HANFORD WEST BYPASS 1 & 2
HW2	HANFORD WEST BYPASS SUBSECTION	17.22	HANFORD WEST BYPASS 1 & 2 MODIFIED
K1	KAWeah SUBSECTION	10.12	HANFORD WEST BYPASS 2 (AT-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K2	KAWeah SUBSECTION	10.83	HANFORD WEST BYPASS 1 (AT-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K3	KAWeah SUBSECTION	10.61	BNSF (HANFORD EAST) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K4	KAWeah SUBSECTION	9.92	BNSF (HANFORD EAST) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K5	KAWeah SUBSECTION	11.17	HANFORD WEST BYPASS 2 MODIFIED (BELOW-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K6	KAWeah SUBSECTION	11.84	HANFORD WEST BYPASS 1 MODIFIED (BELOW-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
C1	CORCORAN SUBSECTION	9.36	CORCORAN ELEVATED
C2	CORCORAN BYPASS SUBSECTION	9.49	CORCORAN BYPASS
C3	CORCORAN SUBSECTION	8.74	BNSF (THROUGH CORCORAN)
P	PIXLEY SUBSECTION	6.88	BNSF
A1	ALLENWORTH BYPASS SUBSECTION	19.05	ALLENWORTH BYPASS
A2	THROUGH ALLENWORTH SUBSECTION	19.03	BNSF (THROUGH ALLENWORTH)
L1	POSO CREEK SUBSECTION	3.18	ALLENWORTH BYPASS (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L2	POSO CREEK SUBSECTION	8.41	ALLENWORTH BYPASS (CONNECTS TO WASCO-SHAFTER BYPASS)
L3	POSO CREEK SUBSECTION	3.18	BNSF (THROUGH ALLENWORTH) (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L4	POSO CREEK SUBSECTION	8.43	BNSF (THROUGH ALLENWORTH) (CONNECTS TO WASCO-SHAFTER BYPASS)
WS1	THROUGH WASCO-SHAFTER SUBSECTION	20.63	BNSF (THROUGH WASCO-SHAFTER)
WS2	WASCO-SHAFTER BYPASS SUBSECTION	14.49	WASCO-SHAFTER BYPASS
B1	BAKERSFIELD URBAN SUBSECTION	11.95	BNSF (BAKERSFIELD NORTH)
B2	BAKERSFIELD URBAN SUBSECTION	11.88	BAKERSFIELD SOUTH
B3	BAKERSFIELD URBAN SUBSECTION	11.95	BAKERSFIELD HYBRID



DETAIL 'A'



DETAIL 'B'



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DESIGNED BY K. SEYOUR	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALIGNMENT ALIGNMENT SUBSECTION DIAGRAM	CONTRACT NO. HSR 06-0003	
DRAWN BY P. TONKIN	-	CALIFORNIA HIGH-SPEED TRAIN	ALLOCATION	DRAWING NO. CB0002	
CHECKED BY D. HUNT	NOT FOR CONSTRUCTION		ALLOCATION	SCALE NTS	
IN CHARGE R. COFFIN	DATE 12/31/13		ALLOCATION	SHEET NO. 2 OF 7	
REV	DATE	BY	CHK	APP	DESCRIPTION

GENERAL SHEETS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0001	ALIGNMENT - LOCATION MAP	SHEET 1 OF 7	
CB0002	ALIGNMENT - ALIGNMENT SUBSECTIONS DIAGRAM	SHEET 2 OF 7	
SB2020	ROADWAY STRUCTURES - INDEX OF SHEETS - SHEET 1 OF 3	SHEET 3 OF 7	
SB2021	ROADWAY STRUCTURES - INDEX OF SHEETS - SHEET 2 OF 3	SHEET 4 OF 7	
SB2022	ROADWAY STRUCTURES - INDEX OF SHEETS - SHEET 3 OF 3	SHEET 5 OF 7	
CB0010	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 1 OF 2	SHEET 6 OF 7	
CB0011	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 2 OF 2	SHEET 7 OF 7	

ALIGNMENT H - HANFORD SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0050	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 14	
ST2117	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - S CLOVIS AVE	SHEET 2 OF 14	
ST2119	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - E ELKHORN AVE	SHEET 3 OF 14	
ST2121	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - S FOWLER AVE	SHEET 4 OF 14	
ST2123	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - E DAVIS AVE	SHEET 5 OF 14	
ST2129	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - DOVER AVE	SHEET 6 OF 14	
ST2133	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - EXCELSIOR AVE	SHEET 7 OF 14	
ST2135	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - ELDER AVE	SHEET 8 OF 14	
ST2137	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - FLINT AVE	SHEET 9 OF 14	
ST2139	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - FARGO AVE	SHEET 10 OF 14	
ST2143	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - HANFORD ARMONA RD	SHEET 11 OF 14	
ST2145	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 12 OF 14	
ST2146	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 13 OF 14	
ST2147	HANFORD SUBSECTION - ALIGNMENT H - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 14 OF 14	

ALIGNMENT F1 - FRESNO SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0040	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 13	
ST2011	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - STANISLAUS ST	SHEET 2 OF 13	
ST2012	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - STANISLAUS ST	SHEET 3 OF 13	
ST2015	FRESNO SUBSECTION - ALIGNMENT F1 - UNDERPASS PLANNING STUDY - G ST / FRESNO ST	SHEET 4 OF 13	
ST2018	FRESNO SUBSECTION - ALIGNMENT F1 - UNDERPASS PLANNING STUDY - G ST / TULARE ST	SHEET 5 OF 13	
ST2021	FRESNO SUBSECTION - ALIGNMENT F2 - UNDERPASS PLANNING STUDY - VENTURA ST	SHEET 6 OF 13	
ST2022	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E CHURCH AVE	SHEET 7 OF 13	
ST2023	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E CHURCH AVE	SHEET 8 OF 13	
ST2024	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - EAST AVE	SHEET 9 OF 13	
ST2025	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E CENTRAL AVE	SHEET 10 OF 13	
ST2028	FRESNO SUBSECTION - ALIGNMENT F1 - OVERHEAD PLANNING STUDY - E AMERICAN AVE	SHEET 11 OF 13	
ST2051	FRESNO SUBSECTION - ALIGNMENT F1 - PEDESTRIAN PLANNING STUDY - STANISLAUS ST	SHEET 12 OF 13	
ST2052	FRESNO SUBSECTION - ALIGNMENT F1 - PEDESTRIAN PLANNING STUDY - STANISLAUS ST	SHEET 13 OF 13	

ALIGNMENT HW - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0055	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 10	
ST2300	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - E ELKHORN AVE	SHEET 2 OF 10	
ST2301	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - EXCELSIOR AVE	SHEET 3 OF 10	
ST2302	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - FLINT AVE	SHEET 4 OF 10	
ST2303	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - FARGO AVE	SHEET 5 OF 10	
ST2306	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - OVERHEAD PLANNING STUDY - GLENDALE AVE	SHEET 6 OF 10	
ST2308	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - OVERHEAD PLANNING STUDY - STATE ROUTE 198	SHEET 7 OF 10	
ST2310	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW (AT-GRADE) - OVERHEAD PLANNING STUDY - HANFORD ARMONA RD	SHEET 8 OF 10	
ST2312	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 9 OF 10	
ST2313	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 10 OF 10	

ALIGNMENT M - MONMOUTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0049	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 9	
ST2101	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E LINCOLN AVE	SHEET 2 OF 9	
ST2103	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E ADAMS AVE	SHEET 3 OF 9	
ST2104	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E SOUTH AVE	SHEET 4 OF 9	
ST2106	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E MANNING AVE	SHEET 5 OF 9	
ST2107	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E MANNING AVE	SHEET 6 OF 9	
ST2109	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E FLORAL AVE	SHEET 7 OF 9	
ST2111	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E NEBRASKA AVE	SHEET 8 OF 9	
ST2113	MONMOUTH SUBSECTION - ALIGNMENT M - OVERHEAD PLANNING STUDY - E MOUNTAIN VIEW AVE	SHEET 9 OF 9	

ALIGNMENT HW2 - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0054	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 11	
ST2350	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - ELK HORN AVE	SHEET 2 OF 11	
ST2351	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - EXCELSIOR AVE	SHEET 3 OF 11	
ST2352	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - FLINT AVE	SHEET 4 OF 11	
ST2353	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - FARGO AVE	SHEET 5 OF 11	
ST2354	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - W LACEY BLVD	SHEET 6 OF 11	
ST2355	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - 13TH AVE	SHEET 7 OF 11	
ST2356	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - GLENDALE AVE	SHEET 8 OF 11	
ST2357	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - STATE ROUTE 198	SHEET 9 OF 11	
ST2358	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - HANFORD ARMONA RD	SHEET 10 OF 11	
ST2359	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - OVERHEAD PLANNING STUDY - HOUSTON AVE	SHEET 11 OF 11	

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REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13

DESIGNED BY
B. LUSCOMBE
DRAWN BY
J. VALENZUELA
CHECKED BY
P. TONKIN
IN CHARGE
R. COFFIN
DATE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY STRUCTURES
INDEX OF SHEETS
SHEET 1 OF 3

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SB2020
SCALE
NO SCALE
SHEET NO.
3 OF 7

ALIGNMENT K1 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0056	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 5	
ST2320	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 2 OF 5	
ST2321	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 3 OF 5	
ST2322	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 4 OF 5	
ST2323	KAWEAH SUBSECTION - ALIGNMENT K1 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 5 OF 5	

ALIGNMENT K2 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0057	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	
ST2330	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 2 OF 4	
ST2331	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 3 OF 4	
ST2332	KAWEAH SUBSECTION - ALIGNMENT K2 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 4 OF 4	

ALIGNMENT K3 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0060	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 6	
ST2201	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - IDAHO AVE	SHEET 2 OF 6	
ST2203	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 6	
ST2207	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - KENT AVE	SHEET 4 OF 6	
ST2209	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 5 OF 6	
ST2211	KAWEAH SUBSECTION - ALIGNMENT K3 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 6 OF 6	

ALIGNMENT K4 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0065	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 5	
ST2200	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - IDAHO AVE	SHEET 2 OF 5	
ST2222	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 5	
ST2226	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - KENT AVE	SHEET 4 OF 5	
ST2228	KAWEAH SUBSECTION - ALIGNMENT K4 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 5 OF 5	

ALIGNMENT K5 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0066	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 7	
ST2250	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 2 OF 7	
ST2251	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 7	
ST2252	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 4 OF 7	
ST2253	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - KANSAS AVE	SHEET 5 OF 7	
ST2254	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 6 OF 7	
ST2255	KAWEAH SUBSECTION - ALIGNMENT K5 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 7 OF 7	

ALIGNMENT K6 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0067	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 7	
ST2260	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - IONA AVE	SHEET 2 OF 7	
ST2261	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - JACKSON AVE	SHEET 3 OF 7	
ST2262	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 4 OF 7	
ST2263	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - LANSING AVE	SHEET 5 OF 7	
ST2264	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 6 OF 7	
ST2265	KAWEAH SUBSECTION - ALIGNMENT K6 - OVERHEAD PLANNING STUDY - NEVADA AVE	SHEET 7 OF 7	

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			DESIGNED BY B. LUSCOMBE
			DRAWN BY J. VALENZUELA
			CHECKED BY P. TONKIN
			IN CHARGE R. COFFIN
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SB2021
SCALE
NO SCALE
SHEET NO.
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ALIGNMENT L2 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0130	POSO CREEK SUBSECTION - ALIGNMENT L2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 2	1
ST2751	POSO CREEK SUBSECTION - ALIGNMENT L2 - OVERHEAD PLANNING STUDY - STATE ROUTE 46	SHEET 2 OF 2	

ALIGNMENT L4 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0150	POSO CREEK SUBSECTION - ALIGNMENT L4 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 2	1
ST2851	POSO CREEK SUBSECTION - ALIGNMENT L4 - OVERHEAD PLANNING STUDY - STATE ROUTE 46	SHEET 2 OF 2	

ALIGNMENT WS1 - WASCO-SHAFTER SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0170	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 14	1
ST2900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MCCOMBS AVE	SHEET 2 OF 14	
ST2911	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MERCED AVE	SHEET 3 OF 14	
ST2912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - MERCED AVE	SHEET 4 OF 14	
ST2913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - POPLAR AVE	SHEET 5 OF 14	
ST2914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - POPLAR AVE	SHEET 6 OF 14	
ST2915	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - FRESNO AVE	SHEET 7 OF 14	
ST2926	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - BURBANK ST	SHEET 8 OF 14	
ST2927	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - BURBANK ST	SHEET 9 OF 14	
ST2917	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - 7TH STANDARD RD	SHEET 10 OF 14	
ST2918	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - TYPICAL SECTIONS - 7TH STANDARD RD	SHEET 11 OF 14	
ST2921	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 12 OF 14	
ST2922	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 13 OF 14	
ST2925	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - OVERHEAD PLANNING STUDY - RENFRO RD	SHEET 14 OF 14	

ALIGNMENT WS2 - WASCO-SHAFTER SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0180	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 11	1
ST2931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KIMBERLINA AVE	SHEET 2 OF 11	
ST2941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - SHAFTER AVE	SHEET 3 OF 11	
ST2951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - BEECH AVE	SHEET 4 OF 11	
ST2961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - EAST LERDO HWY	SHEET 5 OF 11	
ST2963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - CHERRY AVE	SHEET 6 OF 11	
ST2970	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - 7TH STANDARD RD	SHEET 7 OF 11	
ST2971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - TYPICAL SECTIONS - 7TH STANDARD RD	SHEET 8 OF 11	
ST2972	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 9 OF 11	
ST2973	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - KRATZMEYER RD	SHEET 10 OF 11	
ST2976	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - OVERHEAD PLANNING STUDY - RENFRO RD	SHEET 11 OF 11	

ALIGNMENT B1 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 3	1
ST2980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - OVERHEAD PLANNING STUDY - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 3	
ST2981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - TYPICAL SECTIONS - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 3	

ALIGNMENT B2 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0200	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	1
ST2982	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - OVERHEAD PLANNING STUDY - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 4	
ST2983	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - TYPICAL SECTIONS - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 4	
ST2986	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - OVERHEAD PLANNING STUDY - WESTSIDE PKWY/ COFFEE RD OFF RAMPS	SHEET 4 OF 4	

ALIGNMENT B3 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
SB0210	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - OVERHEAD PLANNING STUDY - KEY MAP	SHEET 1 OF 4	1
ST2984	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - OVERHEAD PLANNING STUDY - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 4	
ST2985	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - TYPICAL SECTIONS - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 4	
ST2987	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - OVERHEAD PLANNING STUDY - WESTSIDE PKWY/ COFFEE RD OFF RAMPS	SHEET 4 OF 4	

\$FILE\$
\$TIME\$
\$DATE\$
\$USER\$

REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13

DESIGNED BY
B. LUSCOMBE
DRAWN BY
J. VALENZUELA
CHECKED BY
P. TONKIN
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY STRUCTURES
INDEX OF SHEETS
SHEET 3 OF 3

CONTRACT NO.
HSR 06-0003
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SB2022
SCALE
NO SCALE
SHEET NO.
5 OF 7

A

AB	AGGREGATE BASE
ABC	ASBESTOS BONDED BITUMINOUS COATED
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
ADL	ADDED DEAD LOAD
ADJ	ADJUST
AFES	ALTERNATIVE FLARED END SECTION
AHD	AHEAD
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
ARS	ACCELERATION RESPONSE SPECTRUM
AR	ACCESS RESTRICTION
AS	AGGREGATE SUBBASE
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
AVE	AVENUE
Avg	AVERAGE
@	AT

B

BAGR	BRIDGE APPROACH GUARD RAILING
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCC	BALANCED CANTILEVER CONSTRUCTION
BCR	BEGIN CURB RETURN
BEG	BEGIN
BIT CTD	BITUMINOUS COATED
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLM	BRIDGE-LOG MILE
BLVD	BOULEVARD
BM	BENCH MARK
BND	BOUND
BNSF	BURLINGTON NORTH & SANTA FE
BOT	BOTTOM
BR	BRIDGE
BRG	BEARING
BTU	BRITISH THERMAL UNIT
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

CAA	CABLE ANCHOR ASSEMBLY
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CB	CONCRETE BARRIER
CBW	CONCRETE BLOCK WALL
C-C	CENTER TO CENTER

C CONTINUED

CHSRA	CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST	CALIFORNIA HIGH SPEED TRAIN
CHSR	CALIFORNIA HIGH SPEED RAIL
CG	CENTER OF GRAVITY
CHNL	CHANNEL
CI	CAST IRON
CIDH	CAST-IN-DRILLED-HOLE
CIP, C-I-P	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST IN PLACE CONCRETE PIPE
CISS	CAST-IN-STEEL-SHELL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE, CLASS
CL2	CLASS 2
CL-6	CHAIN LINK FENCE (6 FT)
CLR	CLEAR, CLEARANCE
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CO	COUNTY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CLEARANCE POINT
CR	GREEK
CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CS	CURVE TO SPIRAL
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTRS	CENTERS
CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV	CULVERT
€	CENTERLINE

D

D	DEPTH
DD	DOWNDRAIN, DIRECTIVE DRILLING
DBL	DOUBLE
DEG	DEGREE
DEL	DELINEATOR
DET	DETAIL, DETOUR
DF	DOUGLAS FIR
DI	DRAINAGE INLET, DROP INLET
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIST	DISTANCE, DISTRICT
DMBB	DOUBLE METAL BEAM BARRIER
DR	DRIVE
DTBB	DOUBLE THRIE BEAM BARRIER
DWY	DRIVeway

E

E	EAST, EASTING
EA	ACTUAL SUPERELEVATION
EU	UNBALANCED SUPERELEVATION

E CONTINUED

EASE	EASEMENT
EB	END OF BRIDGE, EASTBOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	EDGE DRAIN
EDC	EDGE DRAIN CLEANOUT
EDO	EDGE DRAIN OUTLET
EDV	EDGE DRAIN VENT
ELEC	ELECTROLIER
ELECT	ELECTRIC
ELEV	ELEVATION
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EP	EDGE OF PAVEMENT
EQ	EQUATION, EQUAL
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST, EX.	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXWY	EXPRESSWAY
EXT	EXTERIOR

F

F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FB	FLOOR BEAM
F-B	FRESNO TO BAKERSFIELD
FDN	FOUNDATION
FEBT	FACING EASTBOUND TRAFFIC
FES	FLARED END SECTION
FF	FILTER FABRIC
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE
FNBT	FACING NORTHBOUND TRAFFIC
FOC	FACE OF CONCRETE
FR RD	FRONTAGE ROAD
FS	FAR SIDE, FINISHED SURFACE
FSBT	FACING SOUTHBOUND TRAFFIC
FT	FOOT, FEET
FTG	FOOTING
FWBT	FACING WESTBOUND TRAFFIC
FWY	FREWAY
FPLM	FULL SPAN PRECAST
	LAUNCHING METHOD

G

G	ACCELERATION DUE TO GRAVITY
GA	GAGE
GALV	GALVANIZED
GP	GRADING PLANE
GR	GUARD RAILING
GSP	GALVANIZED STEEL PIPE
GTR	GUTTER

H

H	HEIGHT
HR	HOUR
HD	HORIZONTAL DRAIN
HDWL	HEADWALL
HEX HD	HEXAGONAL HEAD
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HP	HINGE POINT, HORSEPOWER
HPS	HIGH PERFORMANCE STEEL
HS	HIGH STRENGTH
HST	HIGH SPEED TRAIN
HSR	HIGH SPEED RAIL
HW	HEADWALL, HIGH WATER
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH, INCHES
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION

J

JCT	JUNCTION
JP	JOINT POLE
JPCP	JOINED PLAIN CONCRETE PAVEMENT
JS	JUNCTION STRUCTURE
JT	JOINT

K

K	DISTANCE TO ACHIEVE 1% GRADE CHANGE
L	LENGTH
LAT	LATITUDE
LCB	LEAN CONCRETE BASE
LN	LANE
LOC	LOCATION
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LS	LENGTH OF SPIRAL
LC	LENGTH OF CURVE
LT	LEFT

M

MAINT	MAINTENANCE

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P CONTINUED

PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED, PARALLEL STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVP	MAINTENANCE VEHICLE PULLOUT

Q

OTY QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
REINF	REINFORCED, REINFORCEMENT, REINFORCING

REL RELOCATE

REPL REPLACEMENT

RET RETAINING

REV REVISED

RDWY ROADWAY

RM ROAD-MIXED

RP RADIUS POINT, REFERENCE POINT

RR RAILROAD

RSP ROCK SLOPE PROTECTION

RT RIGHT

RTE ROUTE

RW REDWOOD, RETAINING WALL

R/W, ROW RIGHT OF WAY

RWY RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND
SECT	SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
S	STATION LINE
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE, SPIRAL TO SPIRAL

T

T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBR	TIMBER
TC	TOP OF CURB, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TOP OF GRADE
TOT	TOTAL
TM	TECHNICAL MEMORANDUM
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
TPSS	TRACTION POWER SUPPLY STATION
TRANS	TRANSITION, TRANSVERSE
TS	TRAFFIC SIGNAL, TUBULAR STEEL, TANGET TO SPIRAL
TYP	TYPICAL
TOR	TOP OF RAIL

U

U	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
USFWS	UNITED STATES FISH AND WILDLIFE SERVICE

V

V	VALVE, DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIA	VIADUCT
VOL	VOLUME

W

S CONTINUED

SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT
STA	STATION
STB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STR	STRUCTURE
SRS	STAND ALONE RADIO SITE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES
SJVR	SAN JOAQUIN VALLEY RAILROAD

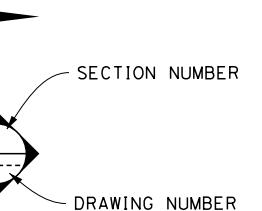
X**Y****Z**

W

WB	WEST,
WH	WESTBOUND
WM	WEEP HOLE
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWOL	WINGWALL LAYOUT LINE
W/	WITH

X**Y****Z**

LEGEND



- E— PROPOSED ELECTRICITY LINE
- e— EXISTING ELECTRICITY LINE
- e—(oh) EXISTING OVERHEAD ELECTRICITY LINE
- E—(OH) PROPOSED OVERHEAD ELECTRICITY LINE
- — — PROPOSED HST RIGHT OF WAY
- — — PROPOSED HST TRACK CENTERLINE
- ▲— RETAINING WALL
- — — TOE OF SLOPE / TOP OF CUT

CONTROL LINE EXAMPLE "A" LINE

255+00 260+00 265+00

OR

TRACK (PLAN AND ELEVATION)

TRACK TO BE REMOVED AND RELOCATED PER BNSF

REMOVE BASE & SURFACING

SOUND BARRIER (POTENTIAL)

DIRECTION OF FLOW

WATER SURFACE

GENERAL NOTES

1. TRACK PROFILE IS DESIGNED AS TOP OF THE LOW RAIL. VERTICAL CLEARANCE REQUIREMENTS ARE MEASURED FROM THE TOP OF THE HIGH RAIL ON SUPERELEVATED TRACK. THE CLEARANCE ENVELOPES SHOWN DEMONSTRATE THE MINIMUM CLEARANCE REQUIREMENTS.
2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES.
3. THE FOLLOWING ARE ROADWAY DESIGN STANDARDS AND GUIDELINES:
 - A. CALTRANS HIGHWAY DESIGN MANUAL (2012)
 - B. AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
 - C. AASHTO ROADSIDE DESIGN GUIDE (2011)
 - D. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF FRESNO)
4. THE FEMA FLOODPLAIN BOUNDARIES ARE CALLED OUT AS "LIMIT OF 100YR FEMA FLOODPLAIN". THE LIMITS OF THE MODELED 100 YEAR WATER SURFACE ELEVATIONS (WSE) ARE APPROXIMATE AND ARE MARKED WITH THE NAME OF THE WATERBODY ASSOCIATED WITH THE MODELED FLOODING, E.G. "LIMIT OF POSO CREEK FLOODPLAIN".
5. THE STRUCTURE DESIGN ASSUMES THAT THE DEPTH FROM TOR TO TOP OF DECK IS 2'-6" THROUGHOUT. HOWEVER, WHERE BALLASTED TRACK FORM IS USED, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-9" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE, AND PROTECTION LAYER IF REQUIRED. FOR SLAB TRACKFORM, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-6" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE AND PROTECTION LAYER IF REQUIRED.
6. WHERE THE VERTICAL ALIGNMENT GRADE IS LESS THAN 0.5% THE UPPER SURFACE OF THE VIADUCT STRUCTURE SHALL BE PROFILED TO GIVE A MINIMUM LONGITUDINAL FALL OF 0.5%. TYPICALLY FOR A SPAN OF 120'-00" ON A 0% GRADE SECTION OF VIADUCT THIS COULD BE ACHIEVED BY MODIFYING THE CROSS SLOPE OF THE GIRDER LINEARLY BETWEEN 0.8% AT MID-SPAN TO 2% AT EACH END.
7. WHEN LATERAL SEPARATION BETWEEN THE CONVENTIONAL RAILROAD AND HST SYSTEM IS LESS THAN 102', A SITE SPECIFIC HAZARD ANALYSIS WILL BE CONDUCTED TO DETERMINE WHAT SPECIFIC COLLISION PROTECTION MEASURES MAY NEED TO BE IMPLEMENTED.
8. RIP-RAP PROTECTION IS REQUIRED FOR EMBANKMENTS WITHIN FEMA SPECIAL FLOOD HAZARD ZONES, IN ACCORDANCE WITH DESIGN CRITERIA.
9. HST ALIGNMENT CONTROL LINE IS DESIGNED AS THE CENTERLINE BETWEEN THE TWO MAINLINE TRACKS.
10. TRACK FORM USED IN TYPICAL SECTIONS IS INDICATIVE.

DIRECTION OF TRAFFIC

POINT OF MINIMUM VERTICAL CLEARANCE
ROAD CLOSURE (ROADWAYS)

1



LINE DATA

3



CURVE DATA (ALIGNMENTS)

CURVE DATA (STRUCTURES)

EXISTING HIGH VOLTAGE
TOWER FOOTPRINT

OG / ORIGINAL GROUND

WINGWALL

HEADWALL

ENDWALL

BB 123+50.00

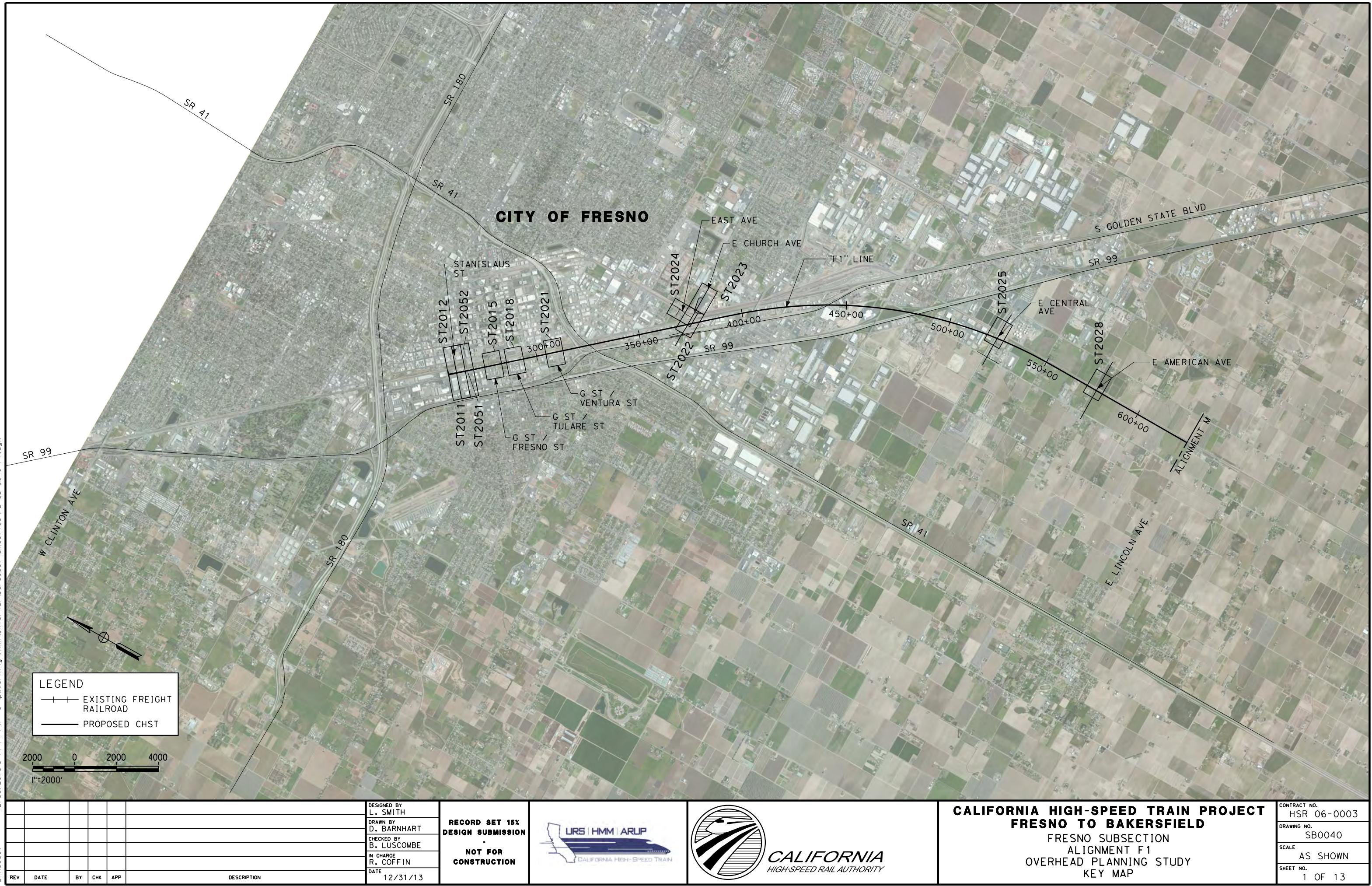
EB 135+50.00

BRIDGE STRUCTURE

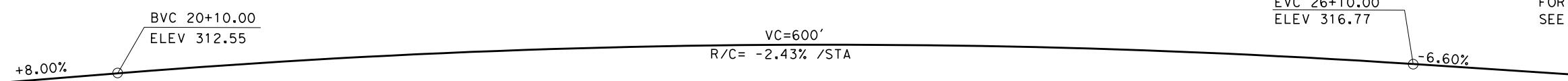
APPROACH SLAB
(SEE STRUCTURAL PLANS)

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
GENERAL
ABBREVIATIONS AND LEGENDS
SHEET 2 OF 2

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB0011
SCALE
NO SCALE
SHEET NO.
7 OF 7

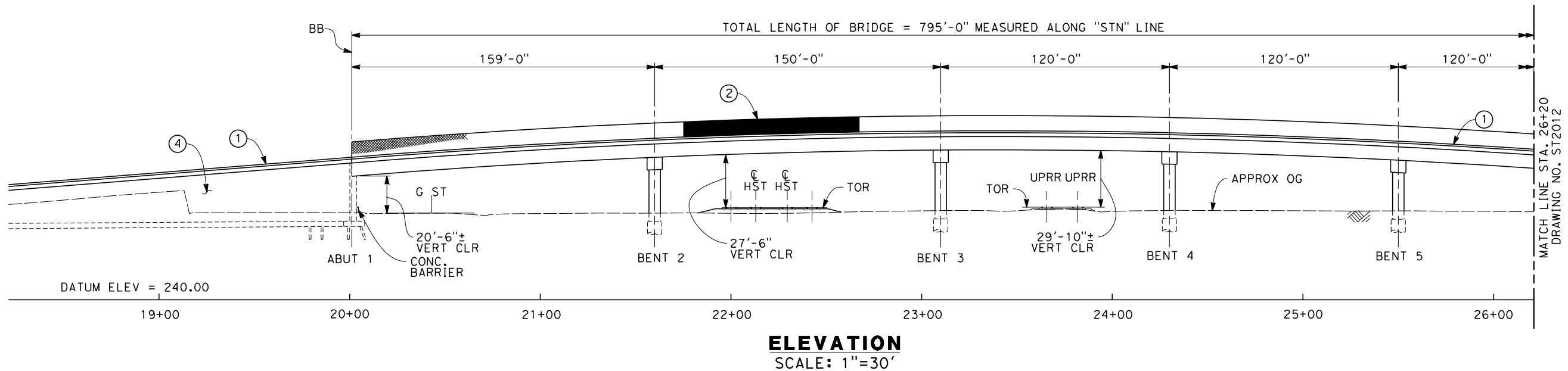


FOR NOTES AND LEGEND,
SEE SHEET ST2012



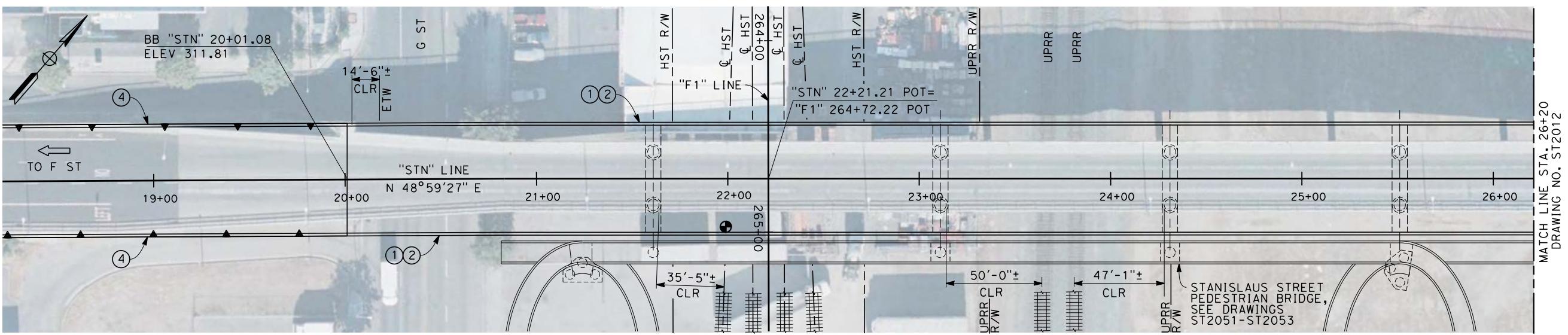
PROFILE GRADE

NO SCALE



ELEVATION

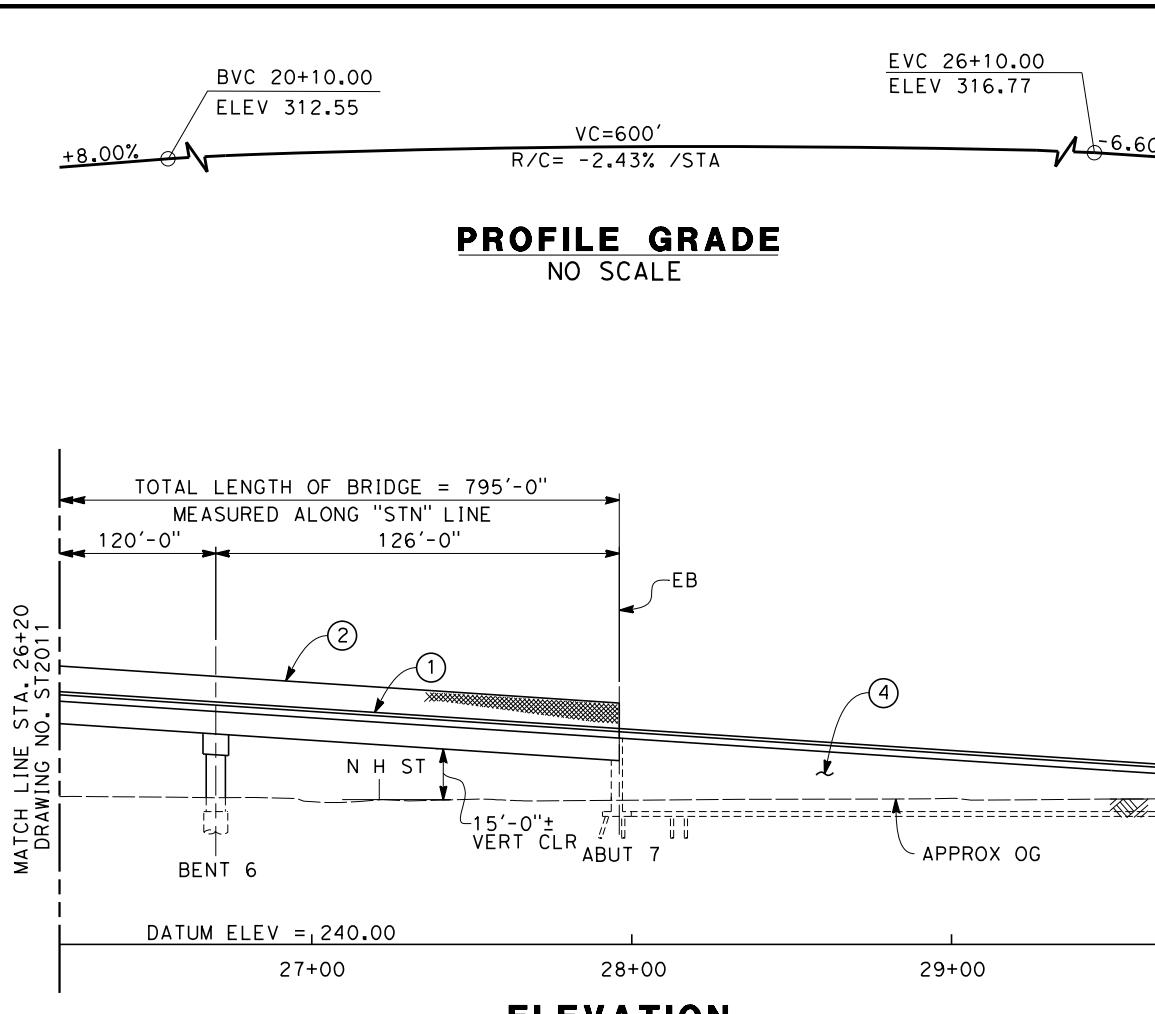
SCALE: 1"=30'



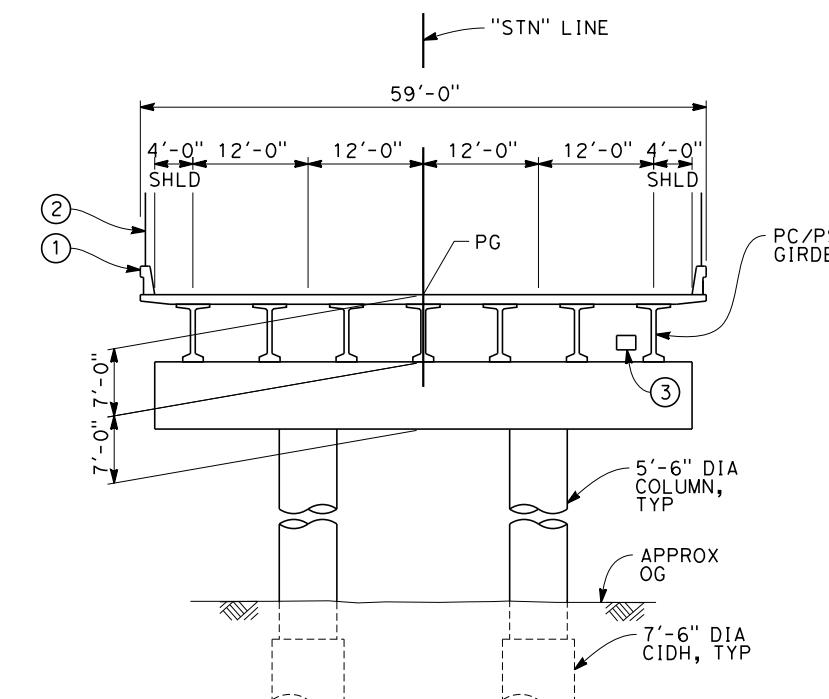
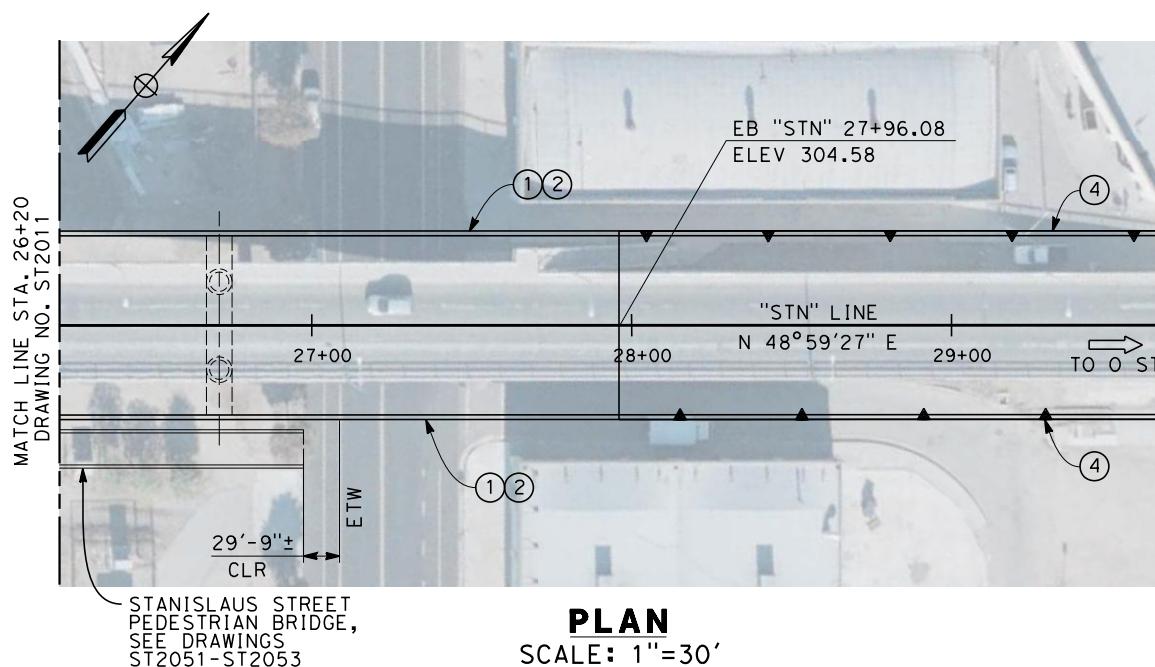
PLAN

SCALE: 1"=30'

				DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
				DRAWN BY D. BARNHART	-			FRESNO SUBSECTION	DRAWING NO. ST2011
				CHECKED BY E. MORAN	NOT FOR CONSTRUCTION			ALIGNMENT F1	SCALE
				IN CHARGE R. COFFIN				OVERHEAD PLANNING STUDY	AS SHOWN
REV	DATE	BY	CHK	APP	DATE	12/31/13		STANISLAUS ST	SHEET NO. 2 OF 13
					DESCRIPTION				



ELEVATION
SCALE: 1"=30'



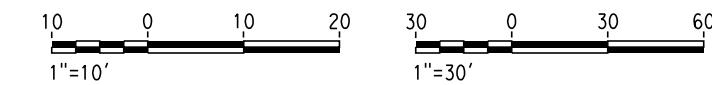
SECTION A
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) RETAINING WALL W/ BARRIER



REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY L. SMITH	DRAWN BY D. BARNHART	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION

IN CHARGE
R. COFFIN

DATE
12/31/13



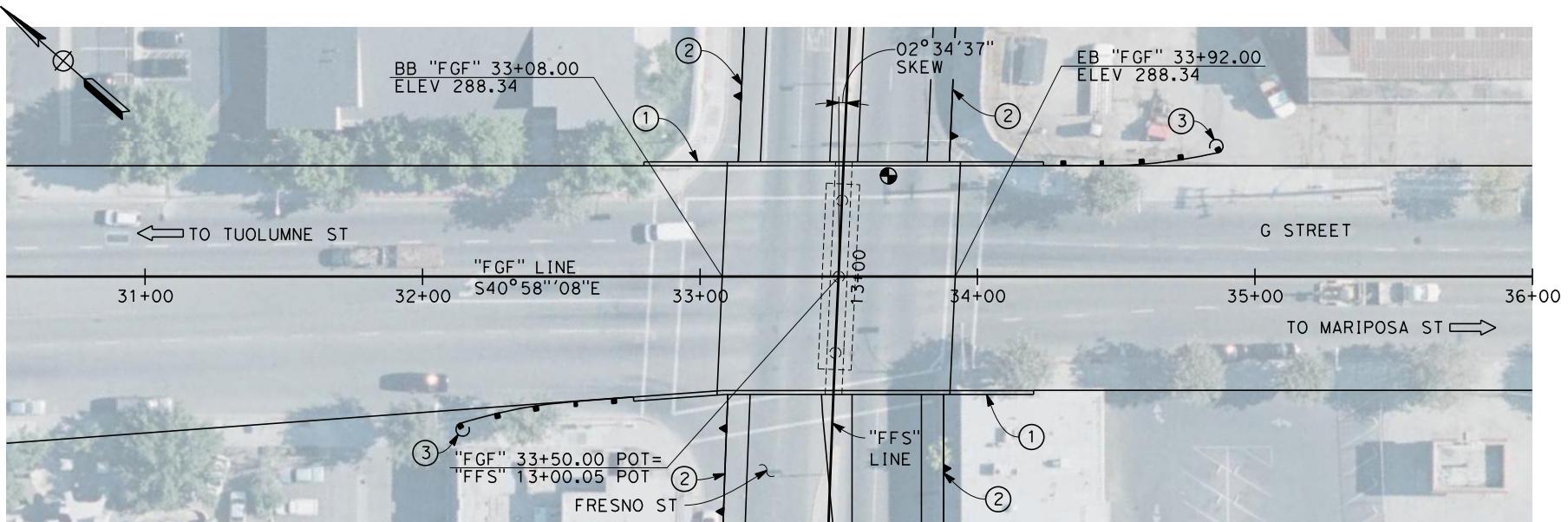
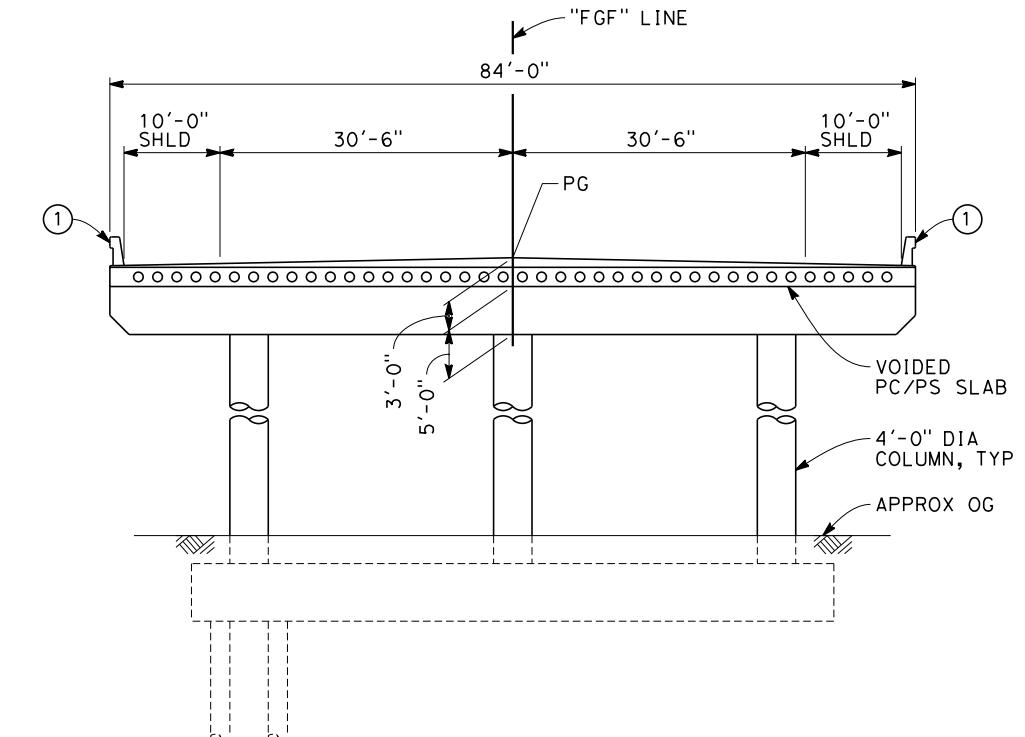
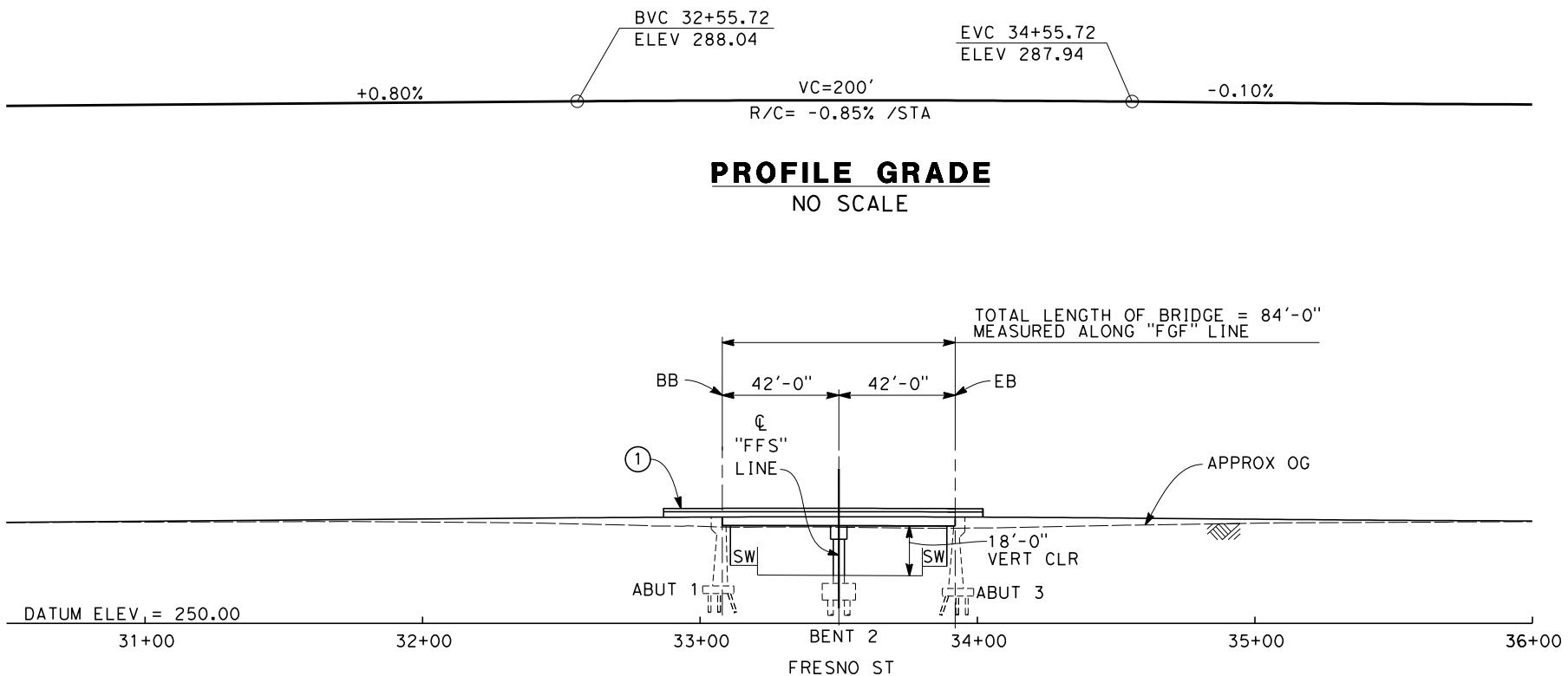
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
OVERHEAD PLANNING STUDY
STANISLAUS ST

CONTRACT NO.
HSR 06-0003

DRAWING NO.
ST2012

SCALE
AS SHOWN

SHEET NO.
3 OF 13



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER
- (2) RETAINING WALL
- (3) MBGR

10 0 10 20
1"=10'
30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

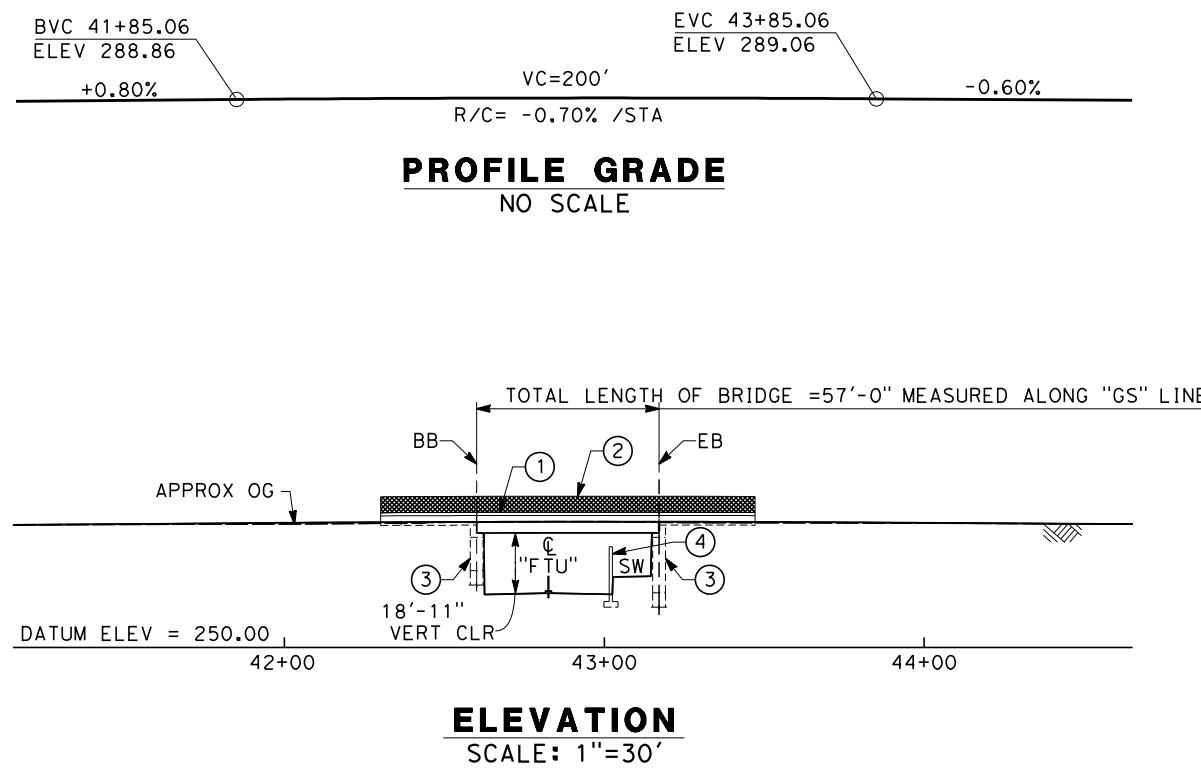
DESIGNED BY
L. SMITH
DRAWN BY
D. BARNHART
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

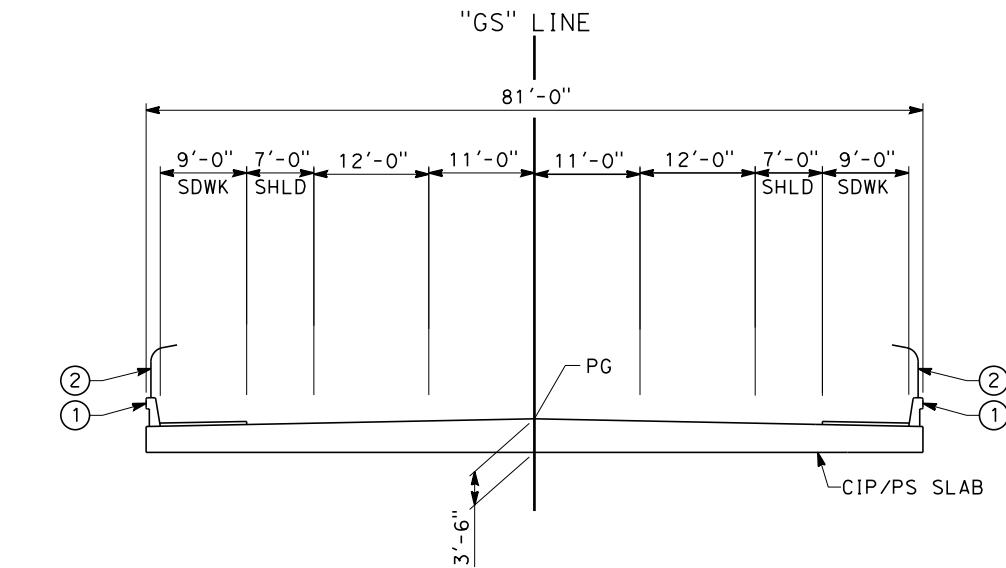
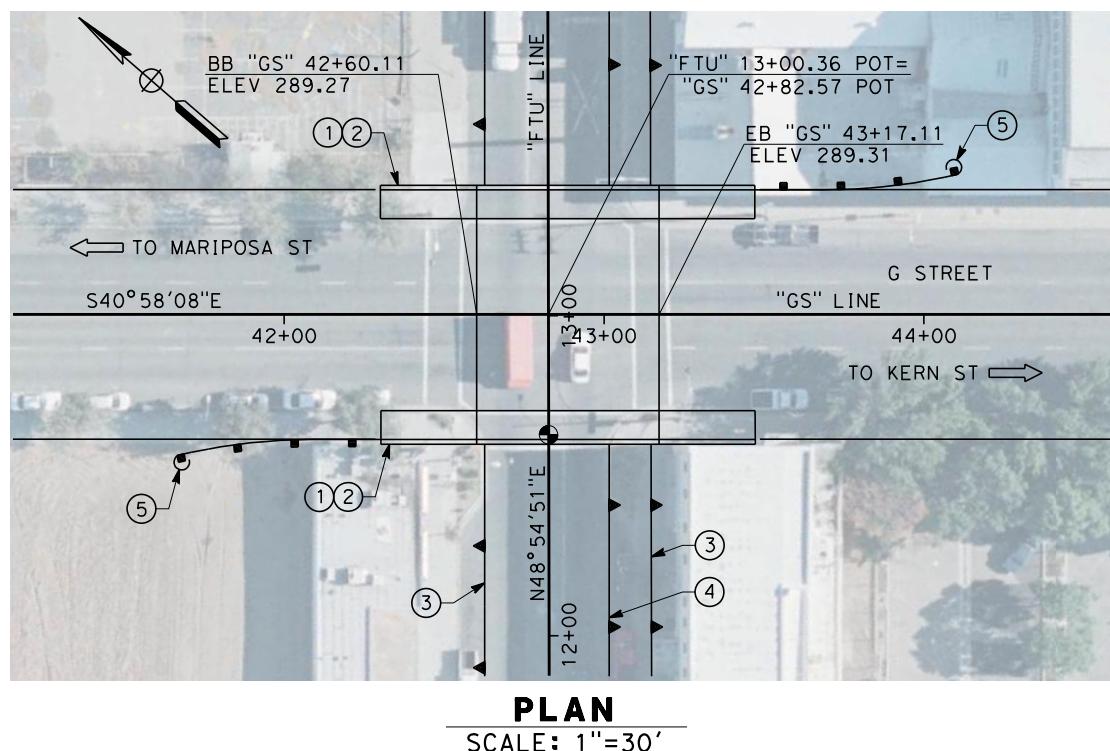


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
UNDERPASS PLANNING STUDY
FRESNO ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2015
SCALE
AS SHOWN
SHEET NO.
4 OF 13



ELEVATION
SCALE: 1"=30'



TYPICAL SECTION
SCALE: 1"=10'

NOTES:

- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE
- ③ TANGENT PILE RETAINING WALL
- ④ RETAINING WALL
- ⑤ MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

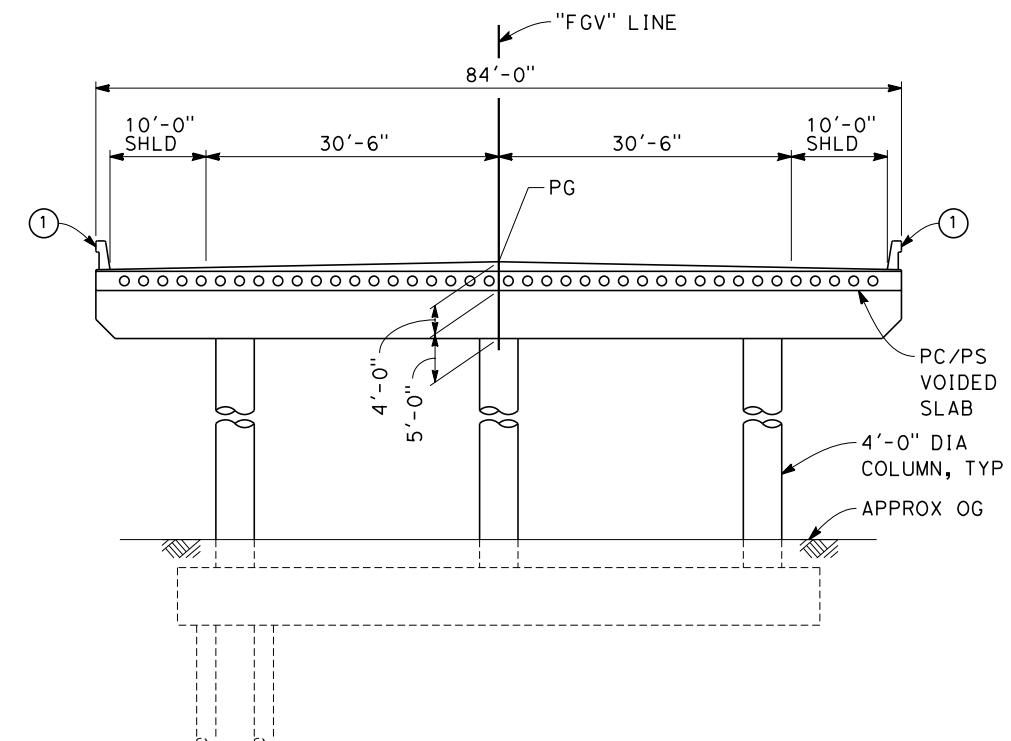
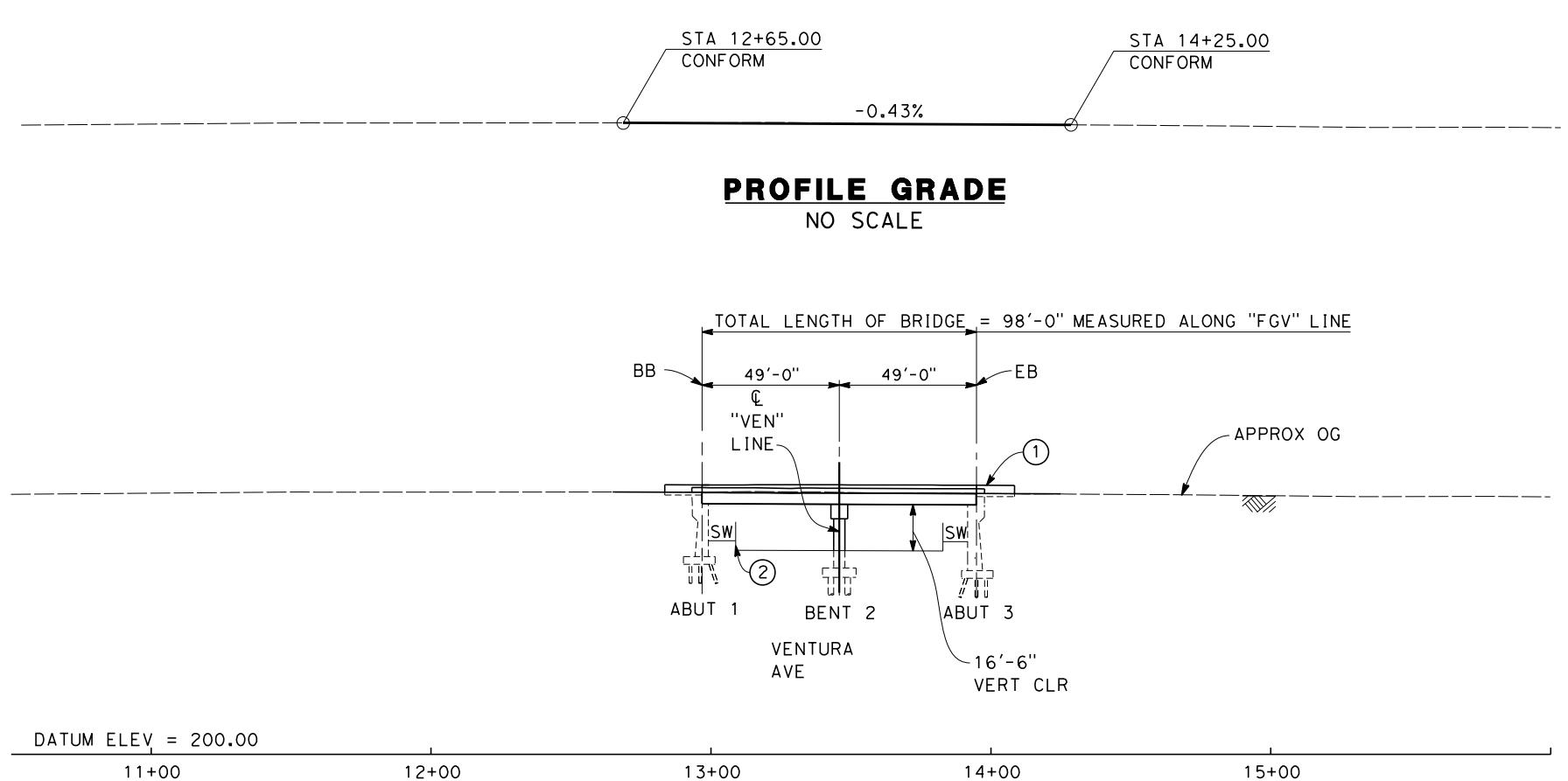
DESIGNED BY
L. SMITH
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

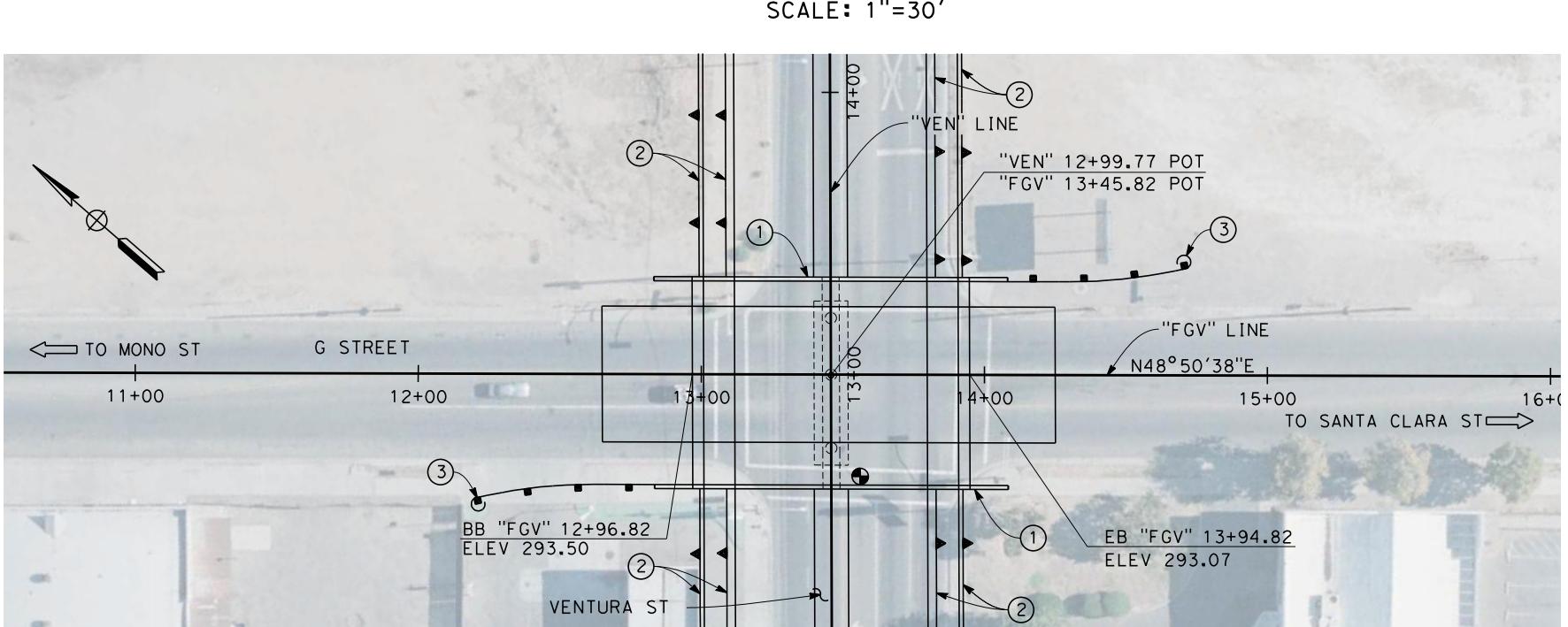


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
UNDERPASS PLANNING STUDY
TULARE ST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2018
SCALE
AS SHOWN
SHEET NO.
5 OF 13



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

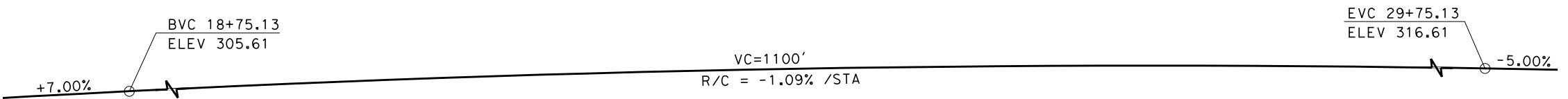
- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER
- (2) RETAINING WALL
- (3) MBGR

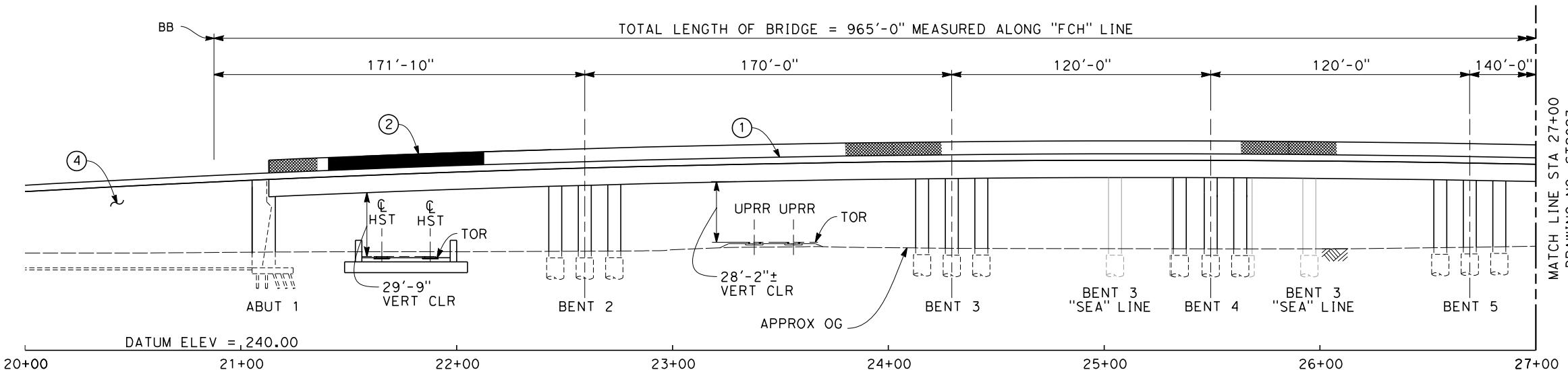
10 0 10 20 30 0 30 60
1"=10' 1"=30'

DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-	CALIFORNIA HIGH-SPEED TRAIN	FRESNO SUBSECTION ALIGNMENT F1	DRAWING NO. ST2021
CHECKED BY E. MORAN	NOT FOR CONSTRUCTION		UNDERPASS PLANNING STUDY	SCALE AS SHOWN
IN CHARGE R. COFFIN			VENTURA ST	SHEET NO. 6 OF 13
DATE 12/31/13	DESCRIPTION 12/31/13			
REV	DATE	BY	CHK	APP



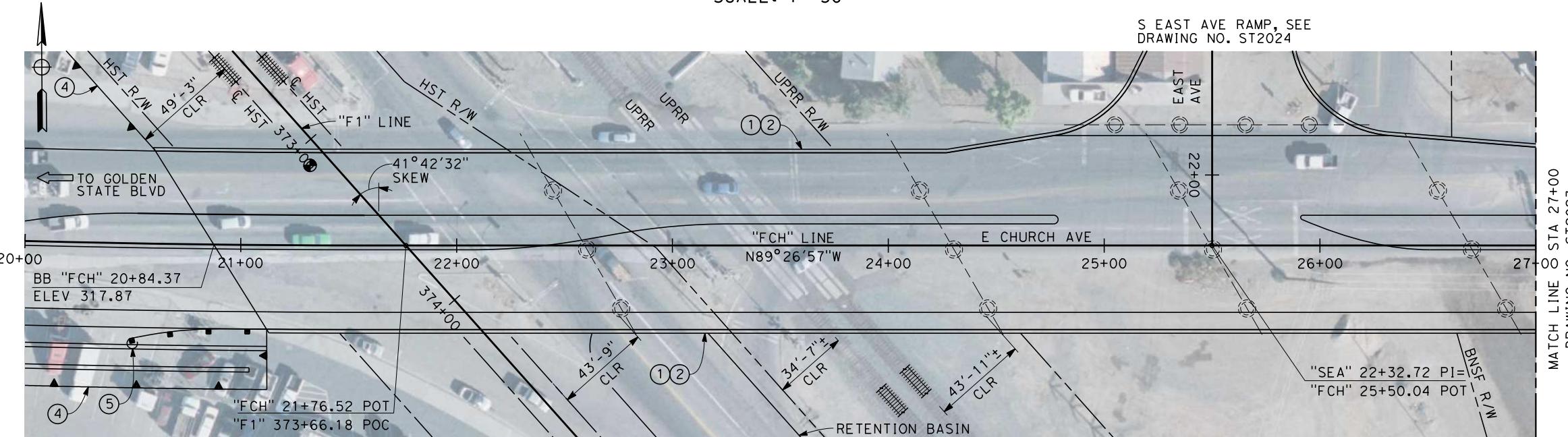
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'

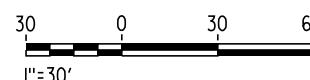


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) RETAINING WALL
- (5) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

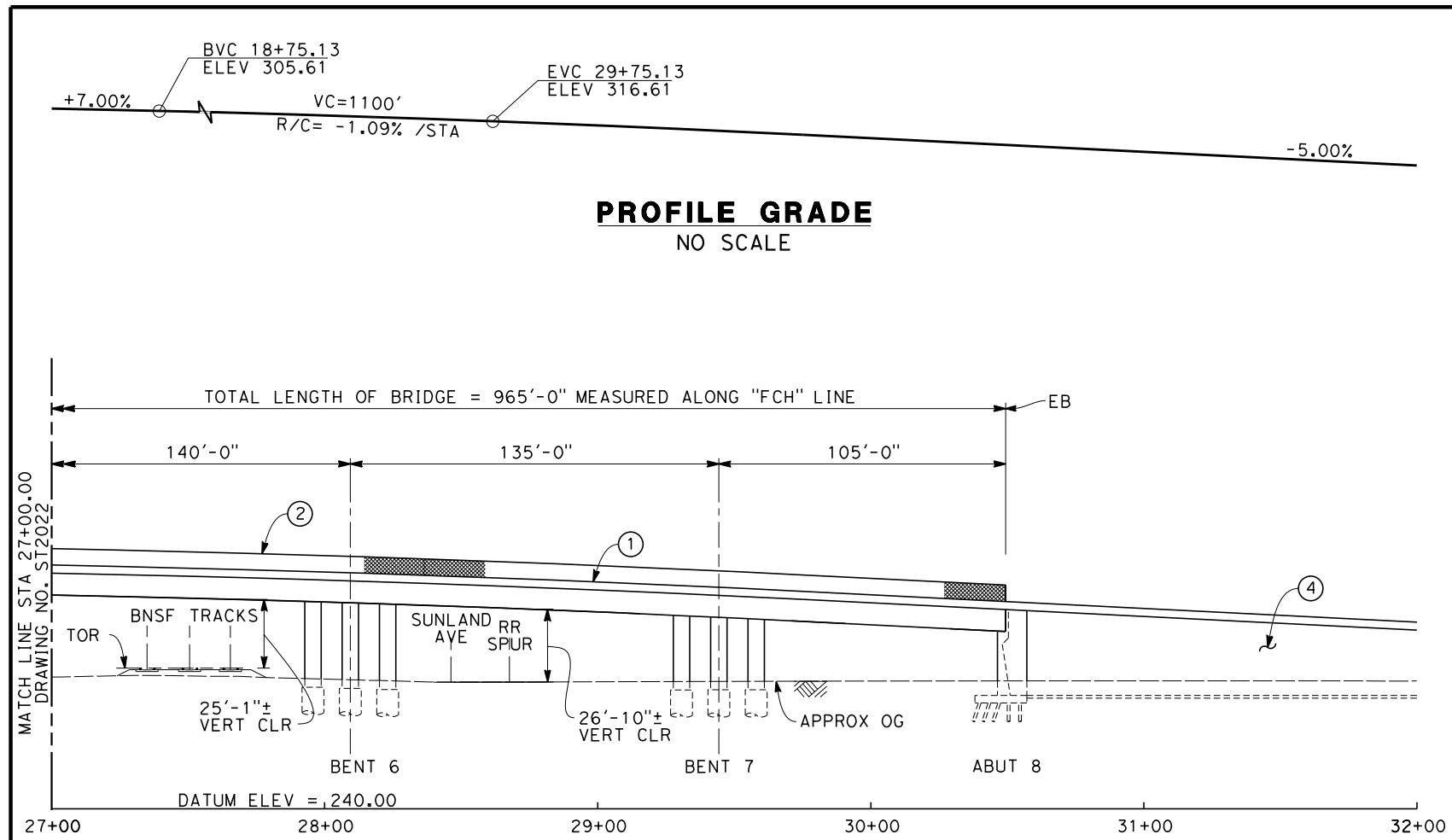
DESIGNED BY
L. SMITH
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

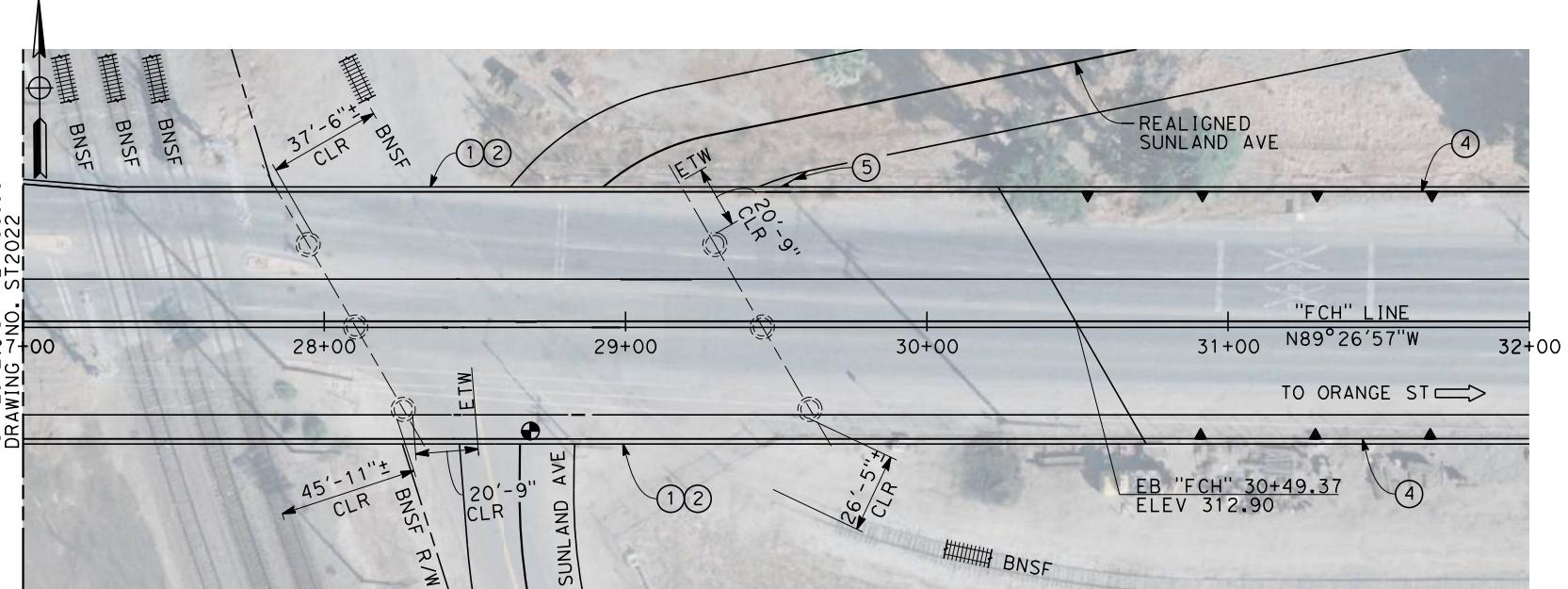


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
OVERHEAD PLANNING STUDY
E CHURCH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2022
SCALE
AS SHOWN
SHEET NO.
7 OF 13

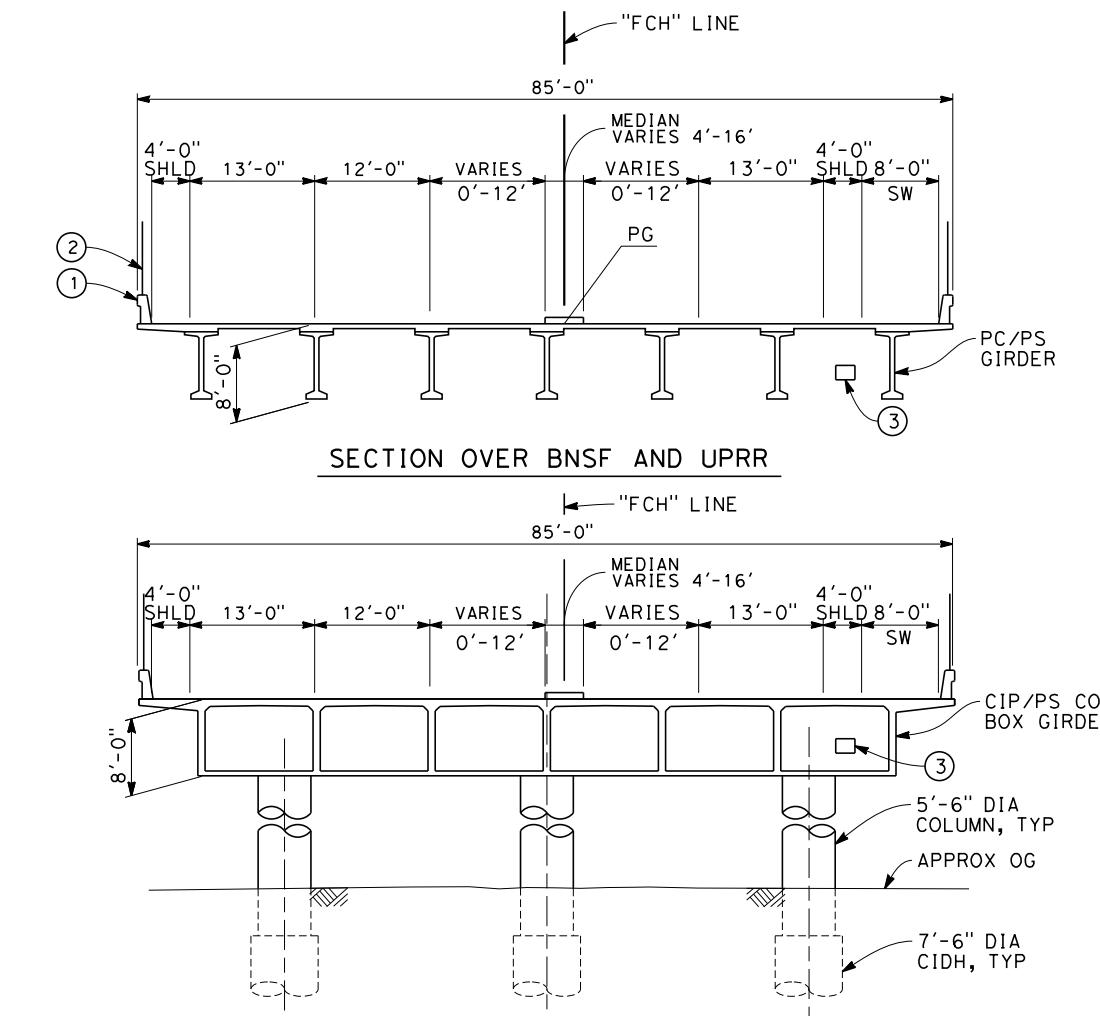


ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP
DRAWN BY D. BARNHART	-	CALIFORNIA HIGH-SPEED TRAIN
CHECKED BY B. LUSCOMBE	NOT FOR CONSTRUCTION	
IN CHARGE R. COFFIN		
DATE 12/31/13		



TYPICAL SECTION
SCALE: 1"=10'

NOTES:

- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

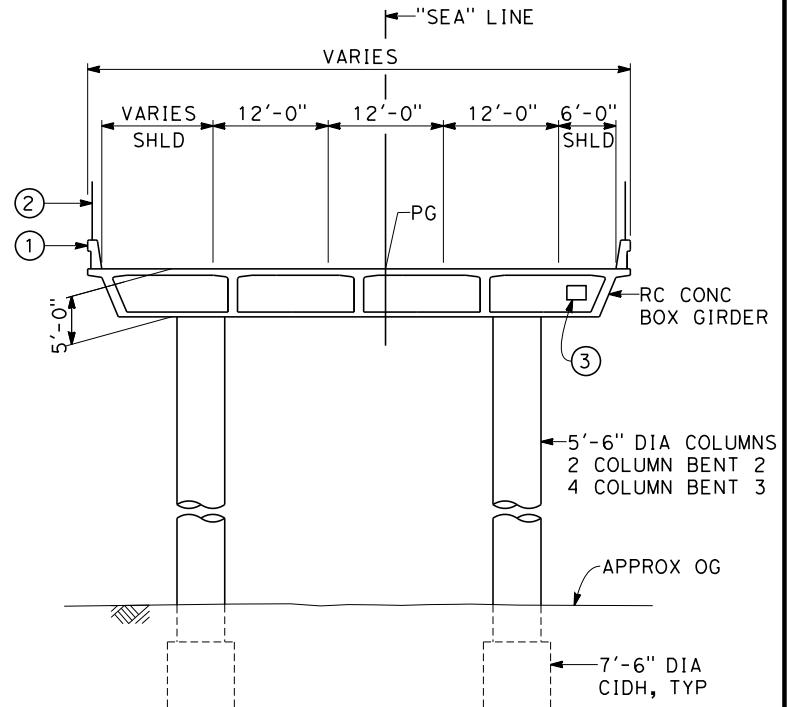
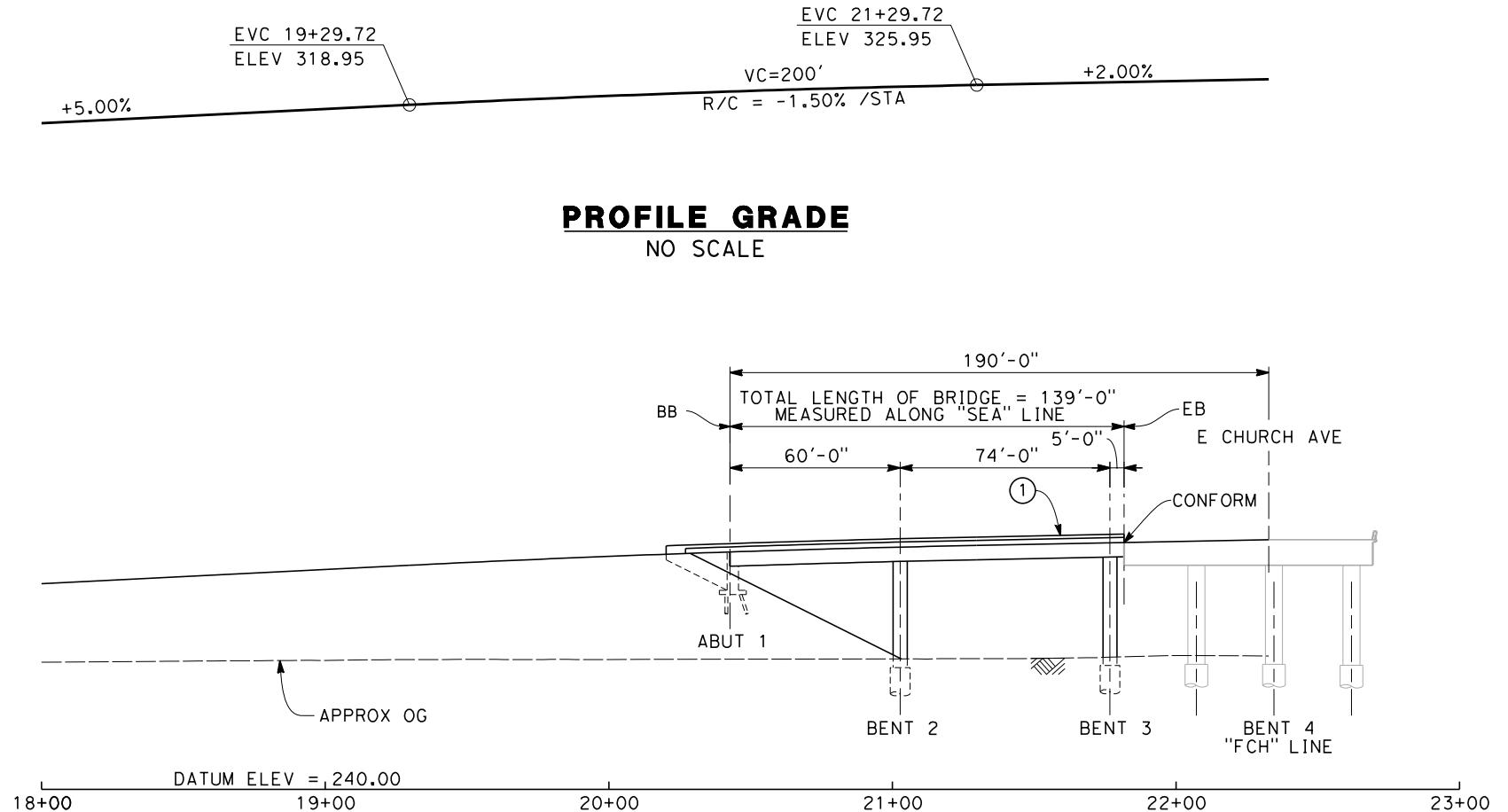
LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ RETAINING WALL W/ BARRIER
- ⑤ MBGR

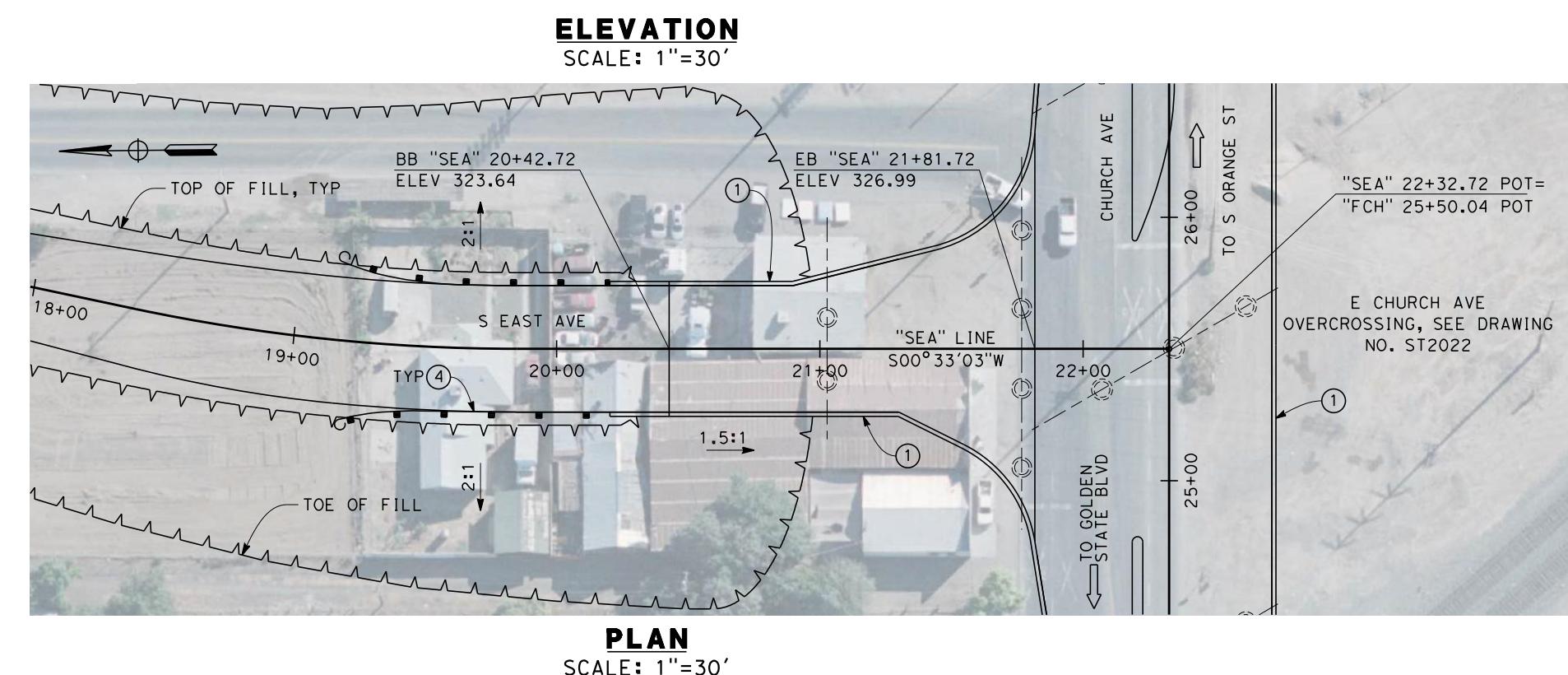


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
OVERHEAD PLANNING STUDY
E CHURCH AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2023
SCALE
AS SHOWN
SHEET NO.
8 OF 13



TYPICAL SECTION
SCALE: 1"=10'

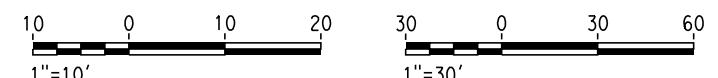


NOTES:

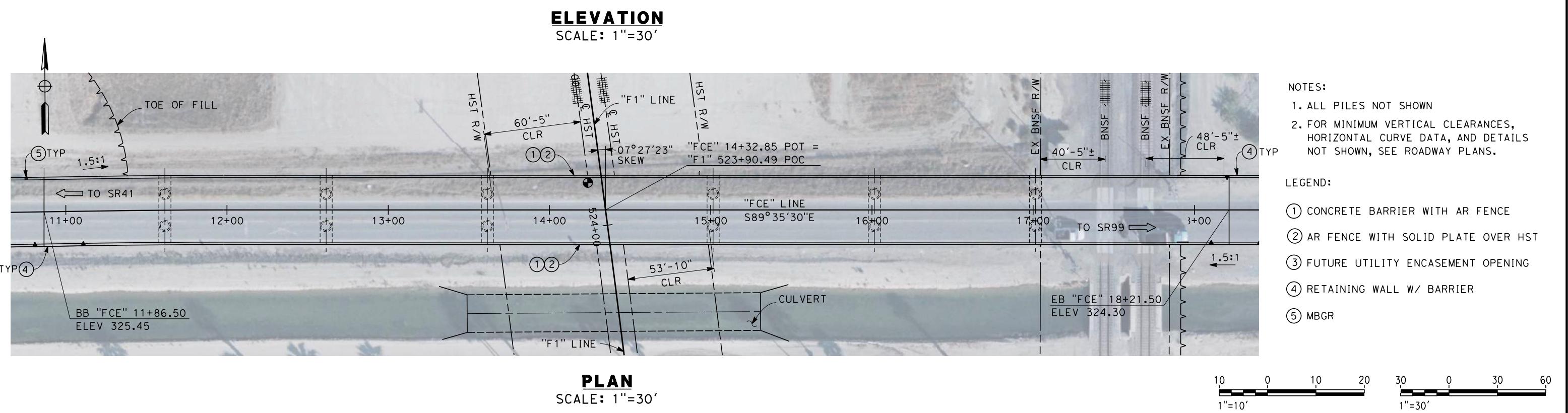
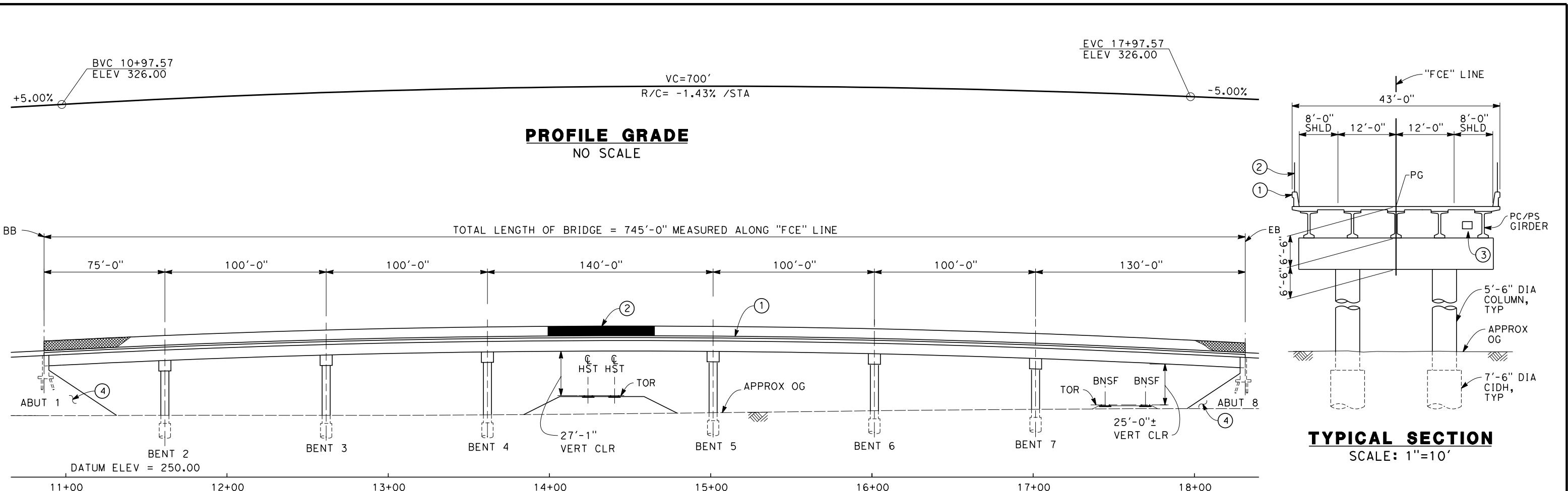
- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

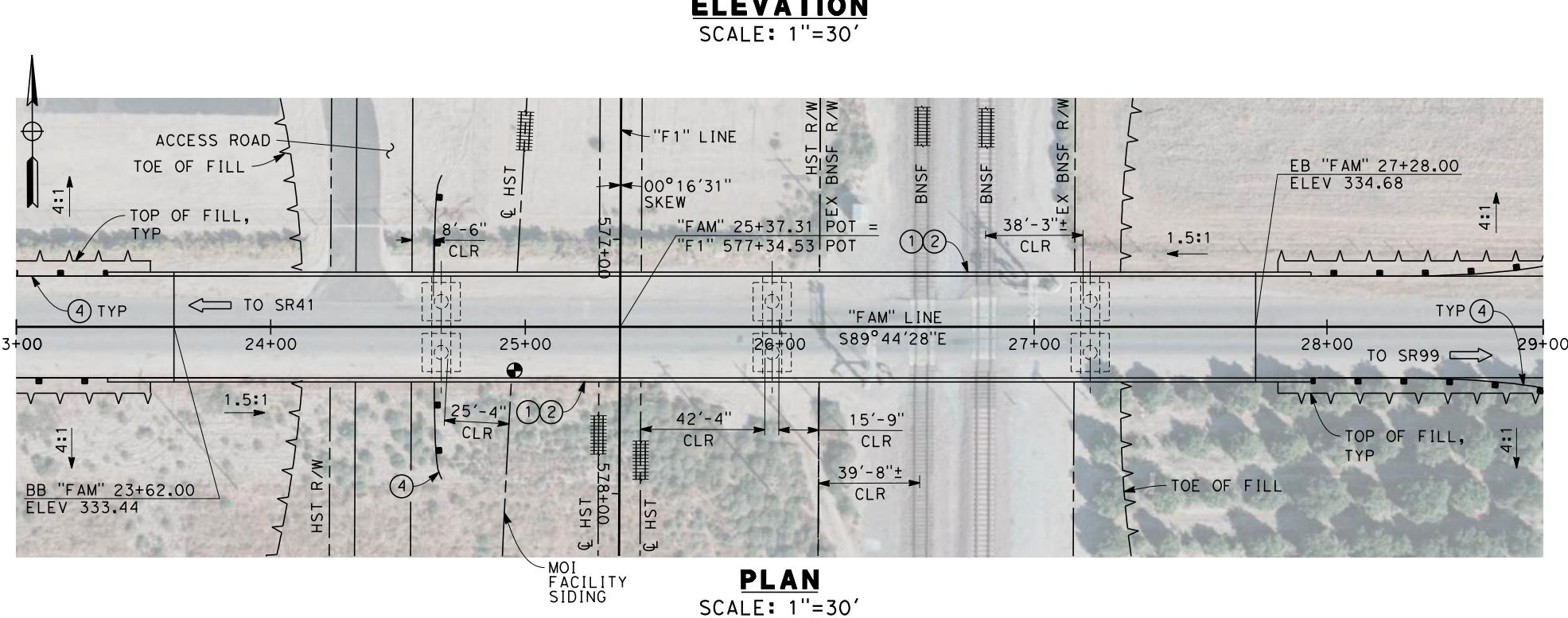
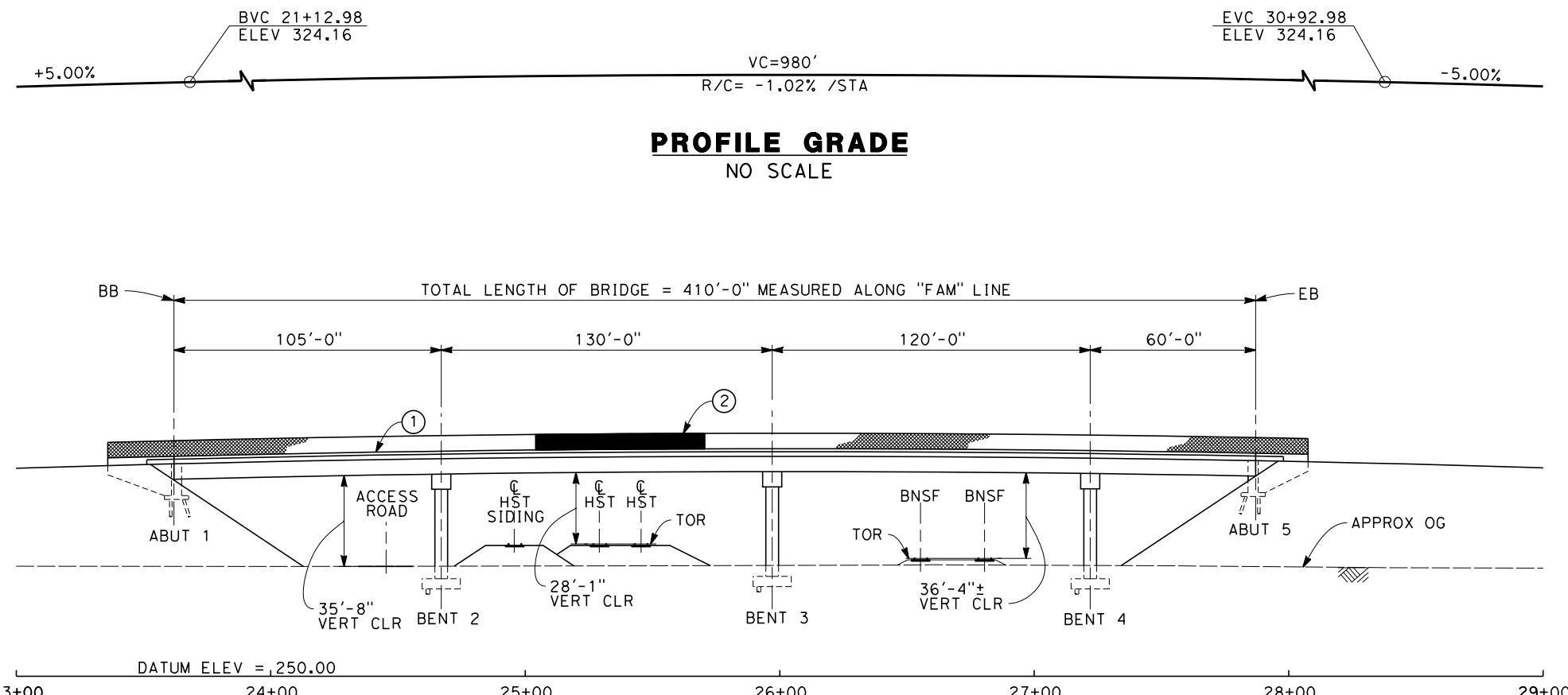
- (1) CONCRETE BARRIER
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-		FRESNO SUBSECTION	DRAWING NO. ST2024
CHECKED BY E. MORAN	NOT FOR CONSTRUCTION		ALIGNMENT F1	SCALE
IN CHARGE R. COFFIN			OVERHEAD PLANNING STUDY	AS SHOWN
DATE 12/31/13			S EAST AVE	SHEET NO. 9 OF 13
REV	DATE	BY	CHK	APP
			DESCRIPTION	



					DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
					DRAWN BY D. BARNHART	-		FRESNO SUBSECTION ALIGNMENT F1	DRAWING NO. ST2025
					CHECKED BY E. MORAN	NOT FOR CONSTRUCTION		OVERHEAD PLANNING STUDY E CENTRAL AVE	SCALE AS SHOWN
					IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		SHEET NO. 10 OF 13
REV	DATE	BY	CHK	APP	DATE	12/31/13			
					DESCRIPTION				



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN. SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MRCB



DESIGNED BY L. SMITH	RECORD SET 15%
DRAWN BY D. BARNHART	DESIGN SUBMISSION
CHECKED BY E. MORAN	
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION
DATE 12/31/13	

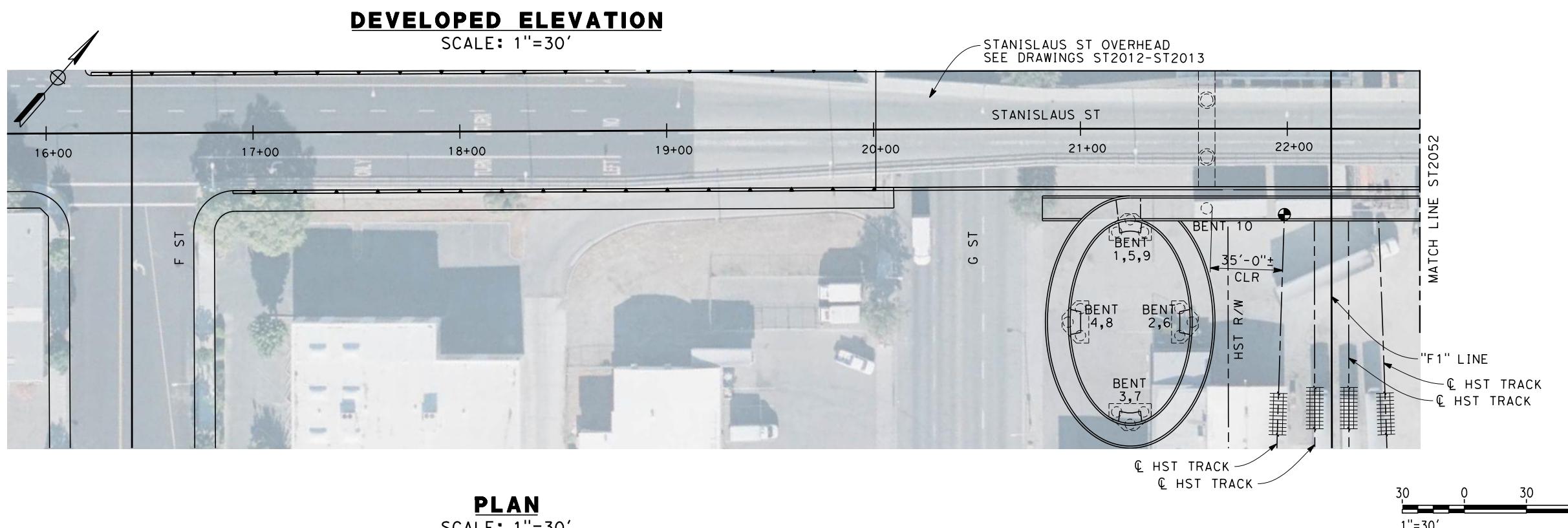
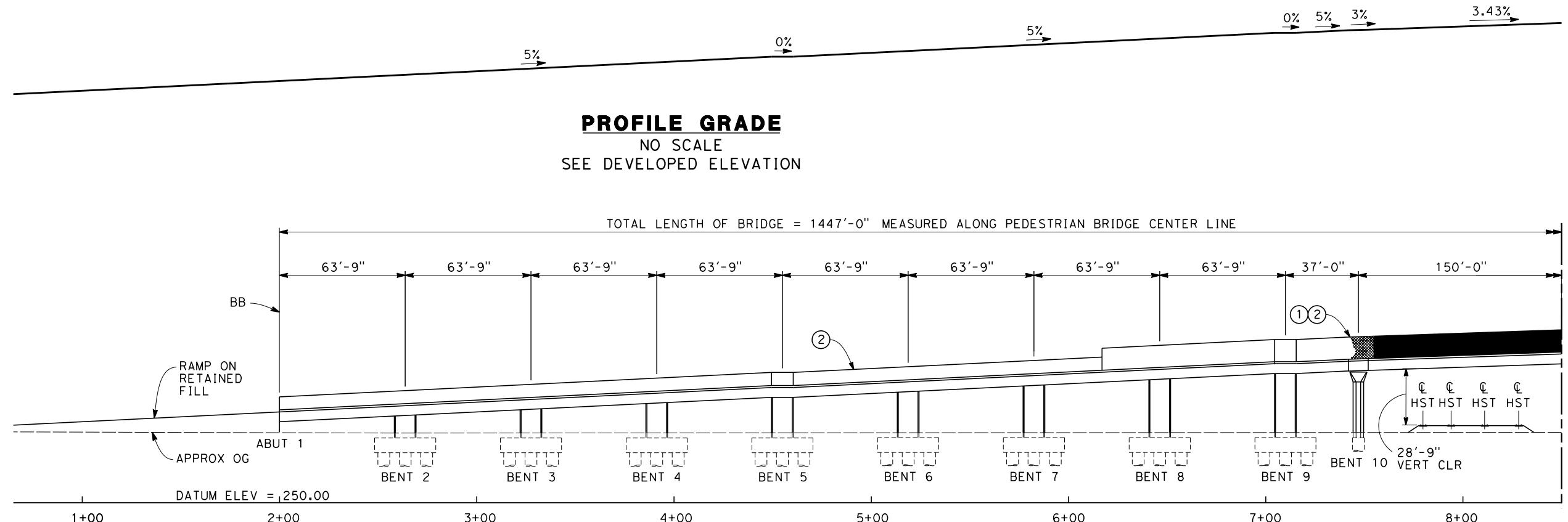


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

FRESNO SUBSECTION
ALIGNMENT F1
OVERHEAD PLANNING STUDY
E. AMERICAN AVE.

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2028
SCALE
AS SHOWN
HEET NO.
11 OF 13

FOR NOTES AND LEGEND,
SEE SHEET ST2052

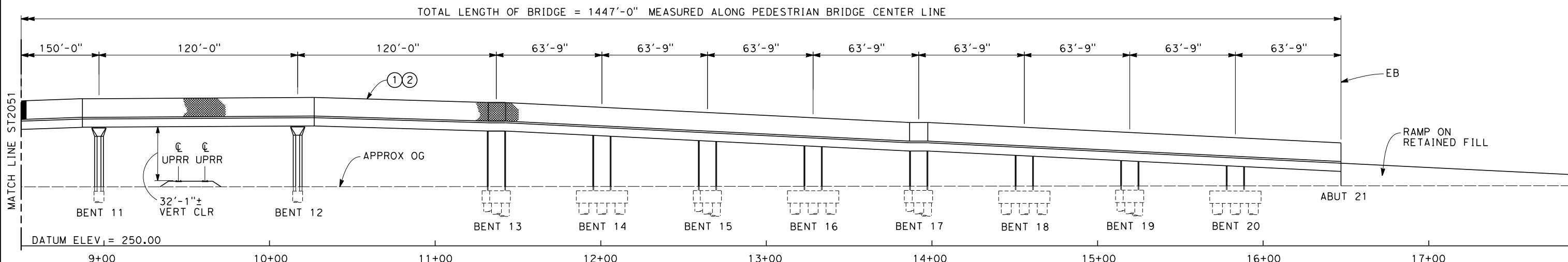


DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-	CALIFORNIA HIGH-SPEED TRAIN	FRESNO SUBSECTION	DRAWING NO. ST2051
CHECKED BY E. MORAN	NOT FOR CONSTRUCTION		ALIGNMENT F1	SCALE
IN CHARGE R. COFFIN			PEDESTRIAN PLANNING STUDY	AS SHOWN
DATE 12/31/13			STANISLAUS ST	SHEET NO. 12 OF 13
REV	DATE	BY	CHK	APP
			DESCRIPTION	



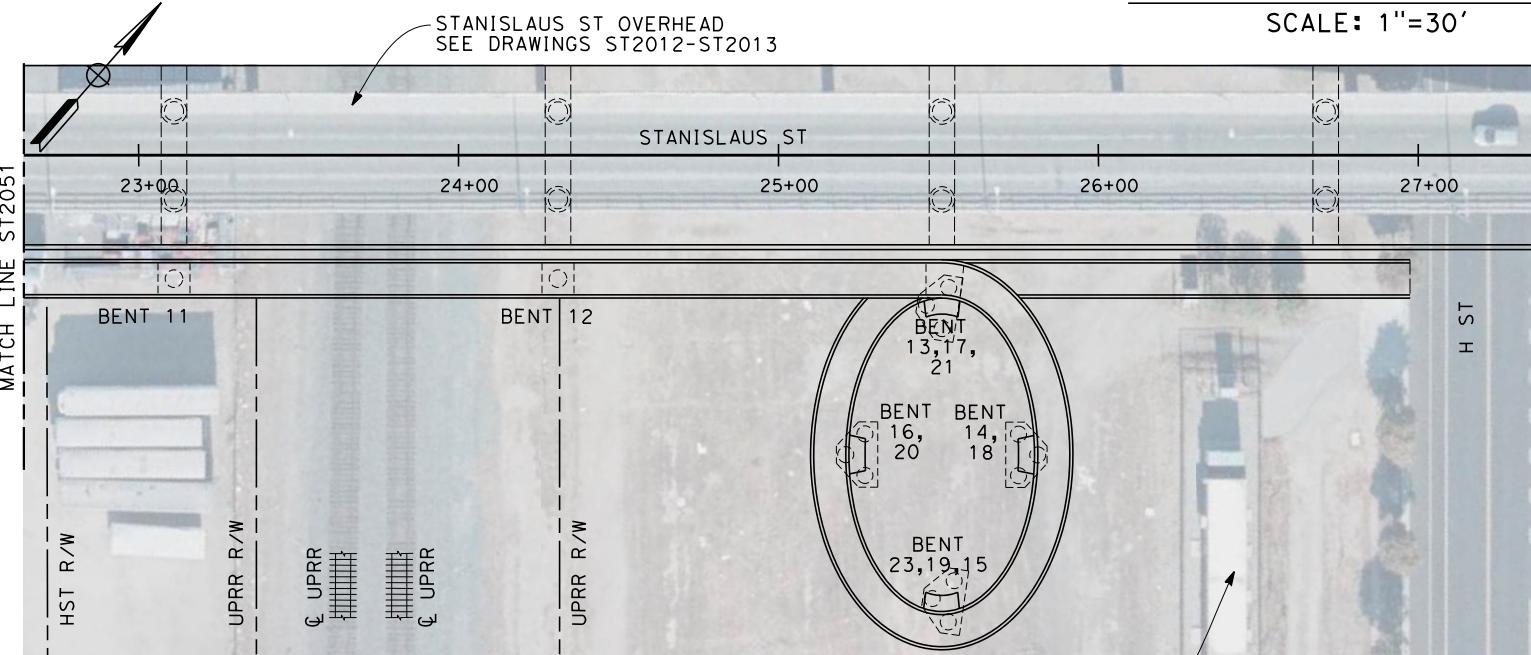
PROFILE GRADE

NO SCALE
SEE DEVELOPED ELEVATION



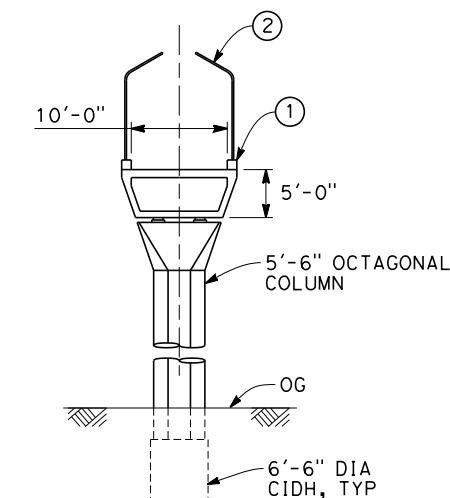
DEVELOPED ELEVATION

SCALE: 1"=30'



UPRR ELECTRICAL FACILITY -
POTENTIAL CONFLICT BETWEEN
FOUNDATIONS AND CABLE ROUTES

PLAN
SCALE: 1"=30'



NOTES:

1. STANISLAUS ST OVERHEAD NOT SHOWN IN ELEVATION
2. ALL PILES NOT SHOWN

LEGEND:

- (1) PEDESTRIAN CURB
- (2) AR FENCE

SECTION
SCALE: 1"=10'

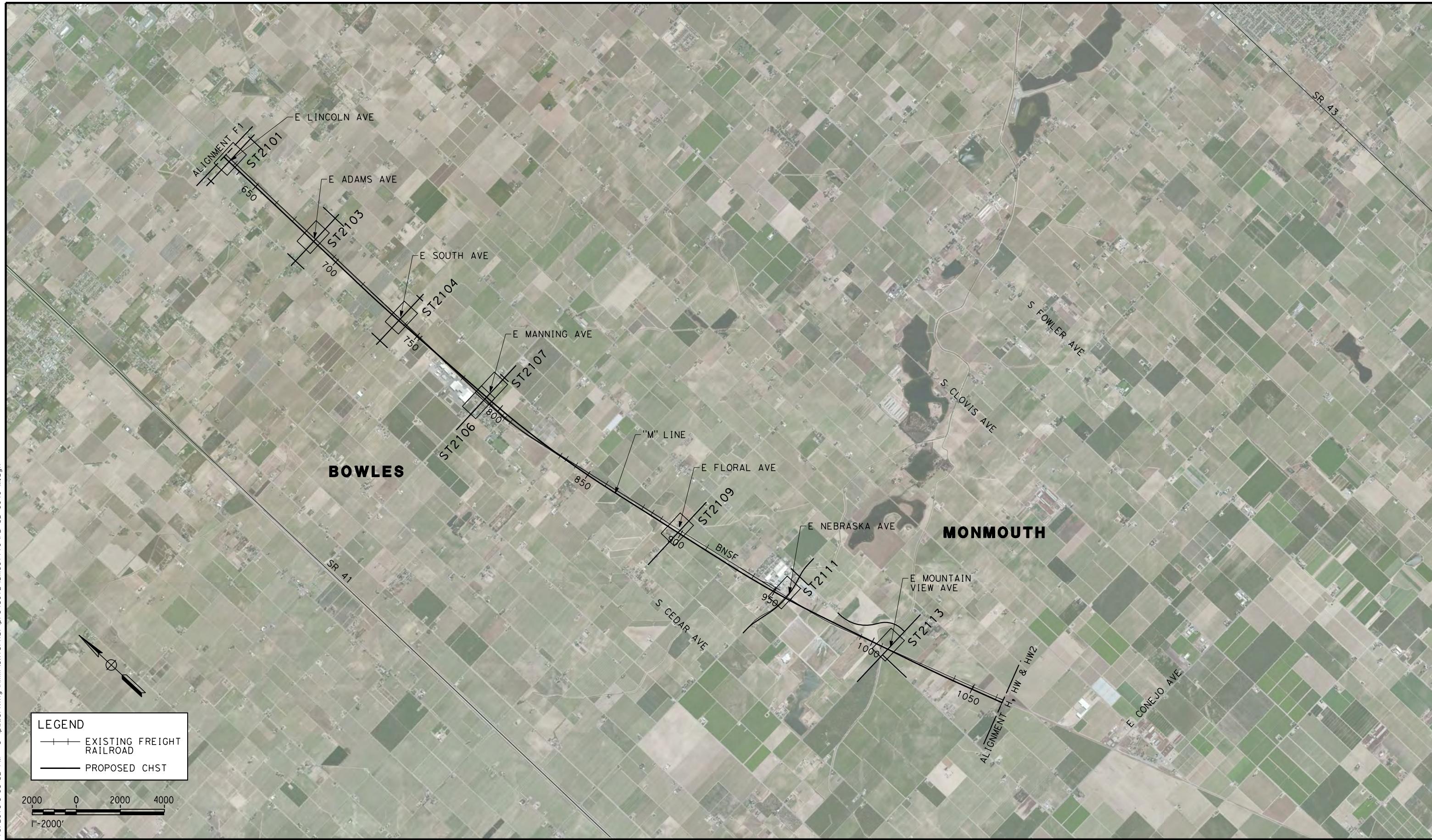
10 0 10 20
1"=10'
30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY L. SMITH	DRAWN BY D. BARNHART	CHECKED BY E. MORAN	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION



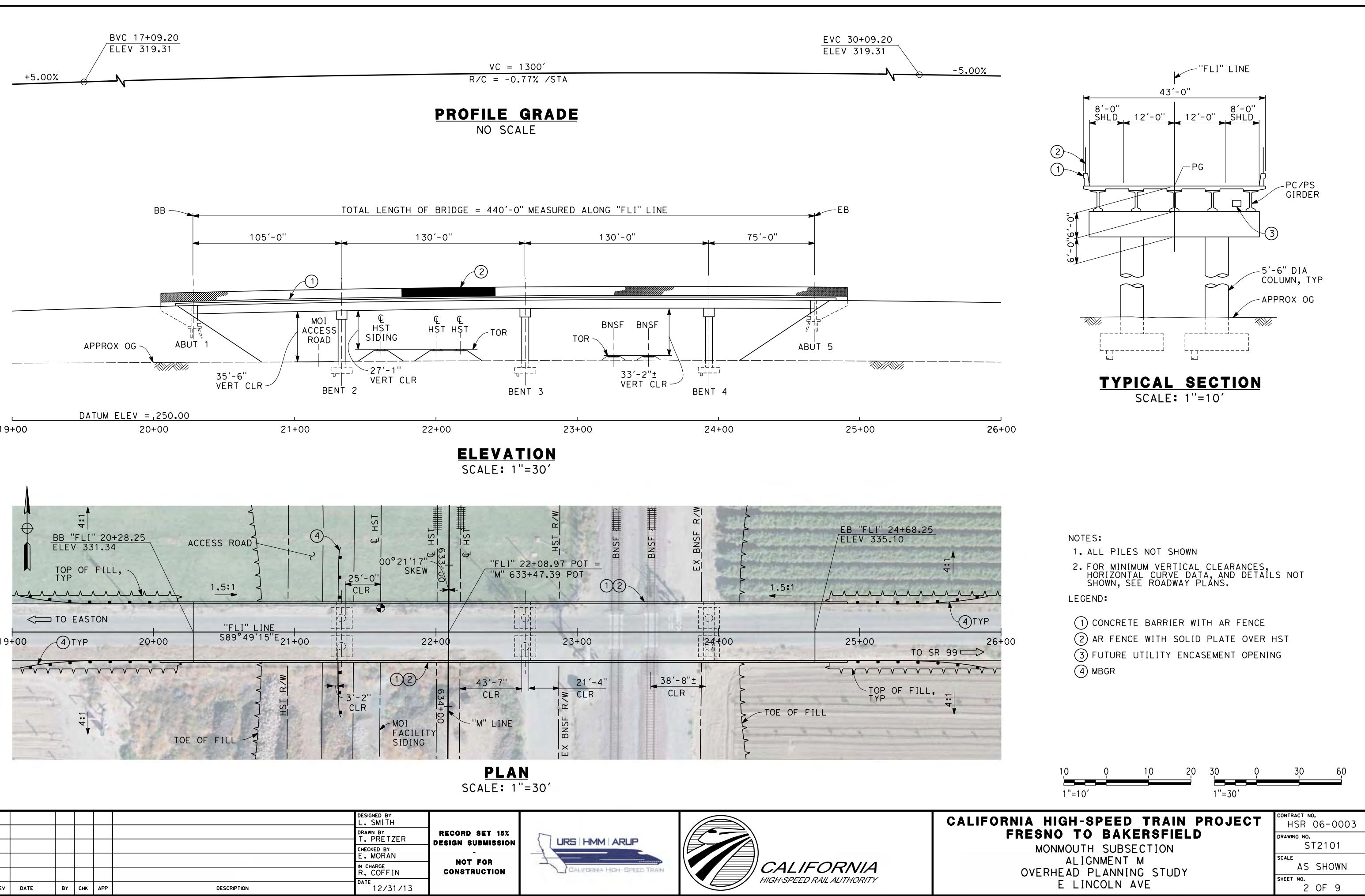
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
FRESNO SUBSECTION
ALIGNMENT F1
PEDESTRIAN PLANNING STUDY
STANISLAUS ST

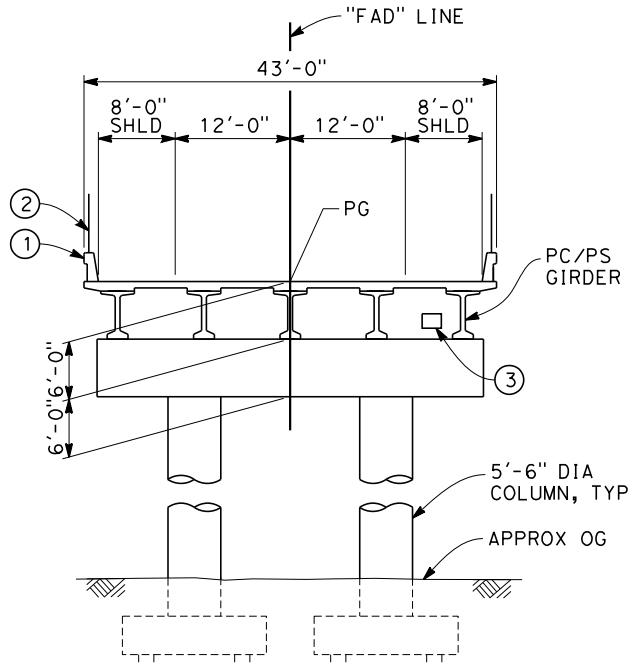
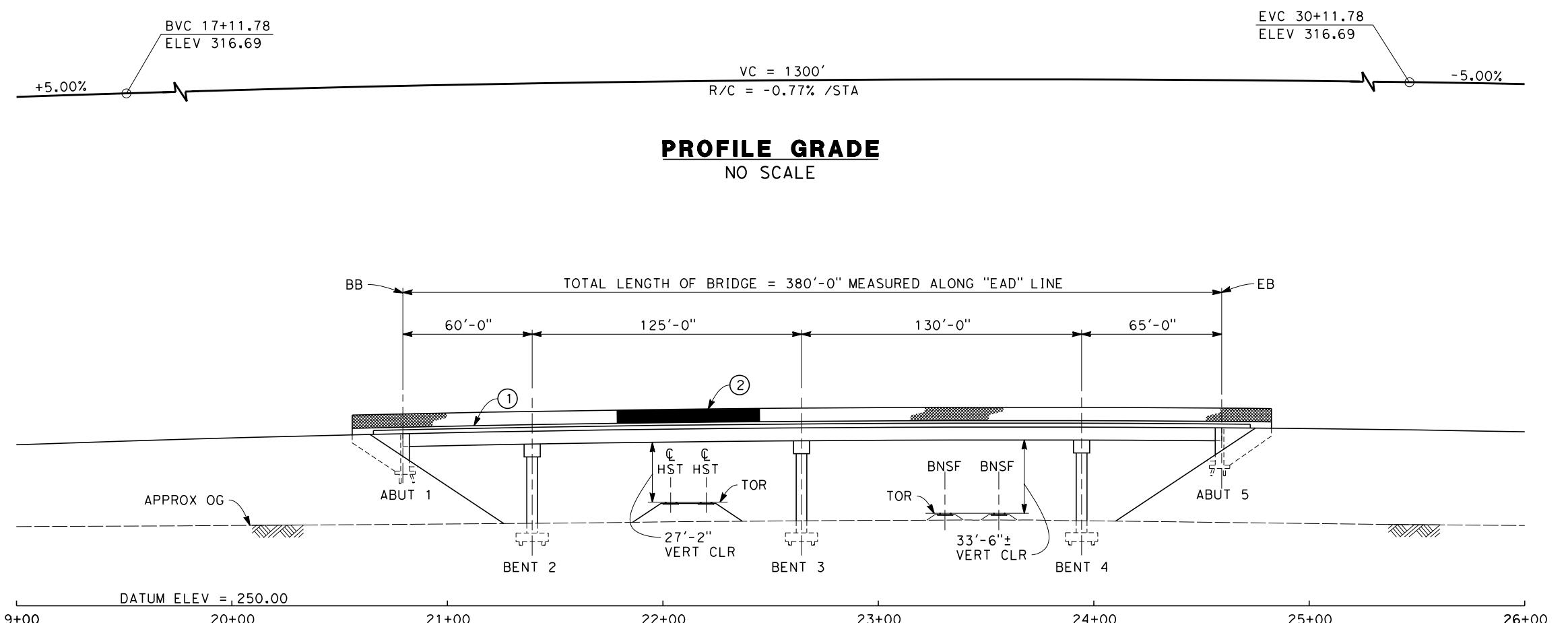
CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2052
SCALE
AS SHOWN
SHEET NO.
13 OF 13



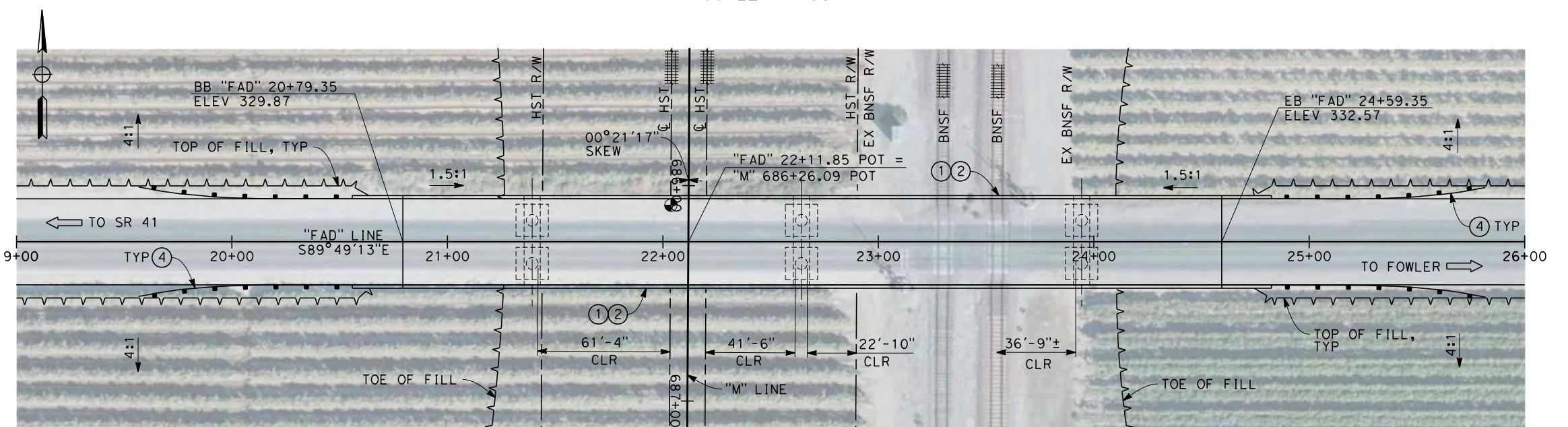
PRE45072

DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-	CALIFORNIA HIGH-SPEED TRAIN	MONMOUTH SUBSECTION	DRAWING NO. SB0049
CHECKED BY E. MORAN	NOT FOR CONSTRUCTION		ALIGNMENT M	SCALE
IN CHARGE R. COFFIN			OVERHEAD PLANNING STUDY	AS SHOWN
DATE 12/31/13			KEY MAP	SHEET NO. 1 OF 9
REV	DATE	BY	CHK	APP
			DESCRIPTION	





TYPICAL SECTION



PLAN

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES,
HORIZONTAL CURVE DATA, AND DETAILS NOT
SHOWN SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MRCP



DESIGNED	L. SM
DRAWN BY	T. PR
CHECKED	E. MO
IN CHARGE	R. CO
DATE	12

**RECORD SET 15%
DESIGN SUBMISSION**

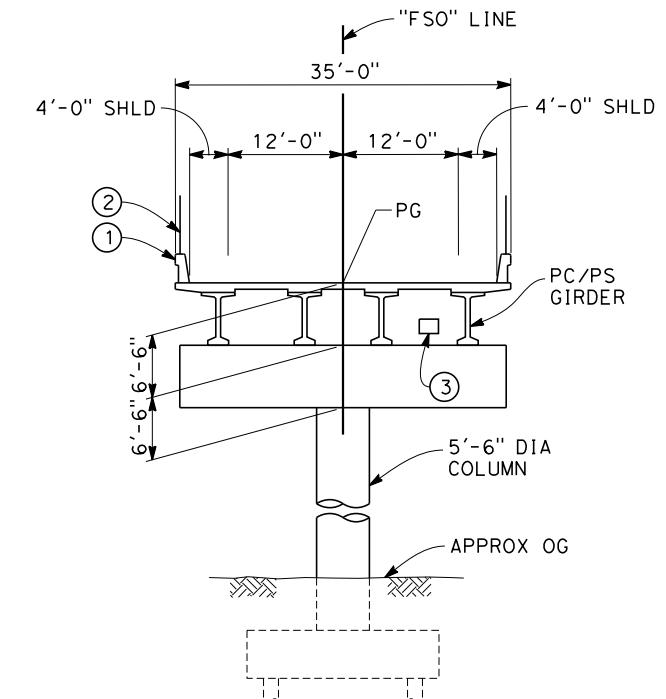
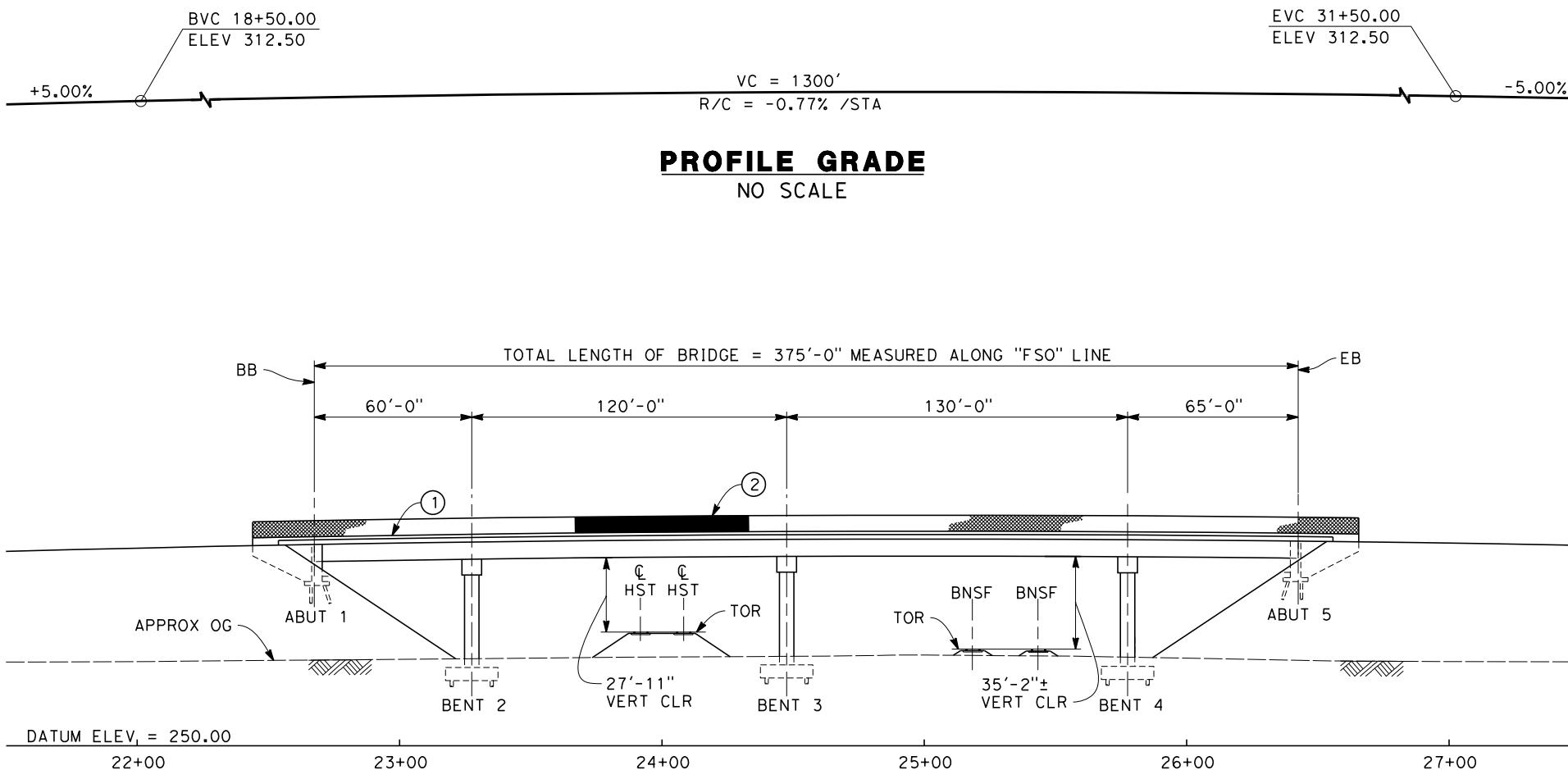
**NOT FOR
CONSTRUCTION**



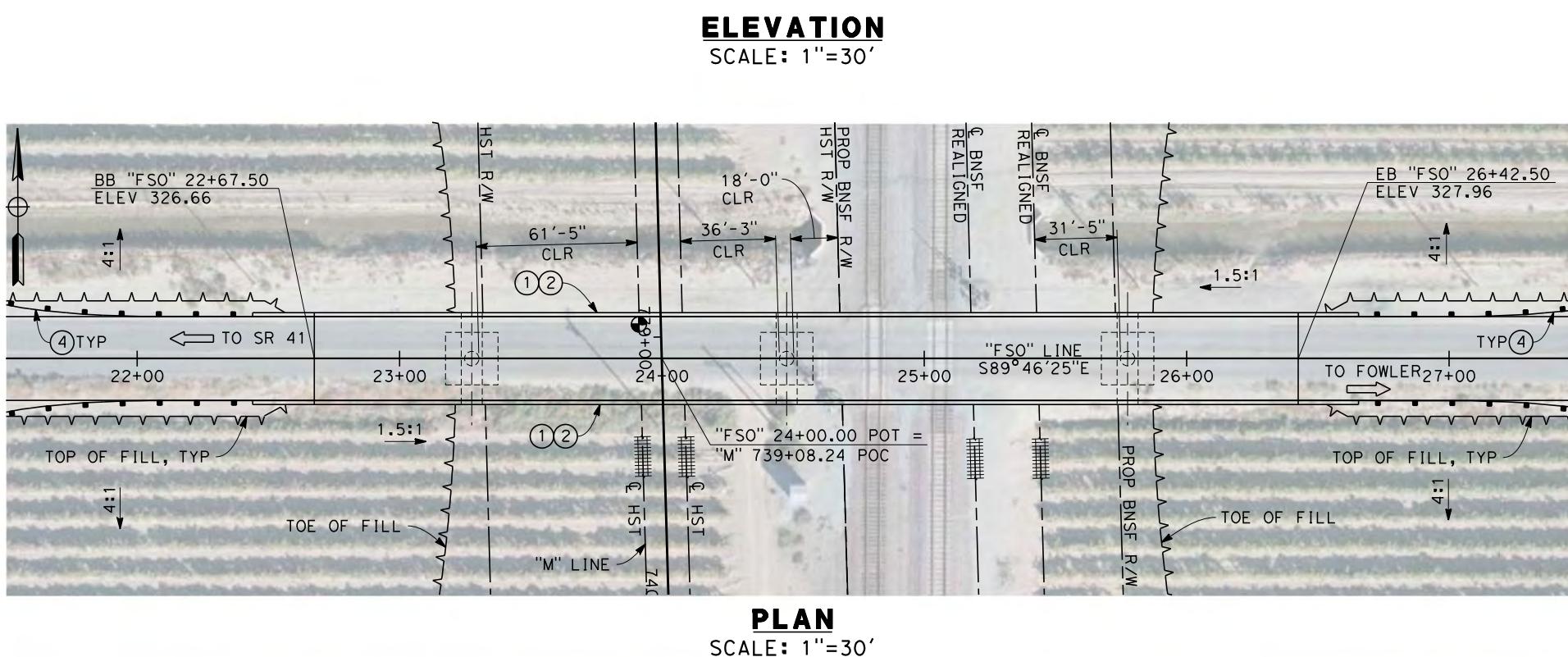
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E ADAMS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2103
SCALE
AS SHOWN
PAGE NO.
3 OF 9



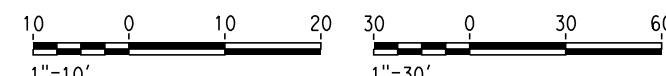
TYPICAL SECTION
SCALE: 1"=10'

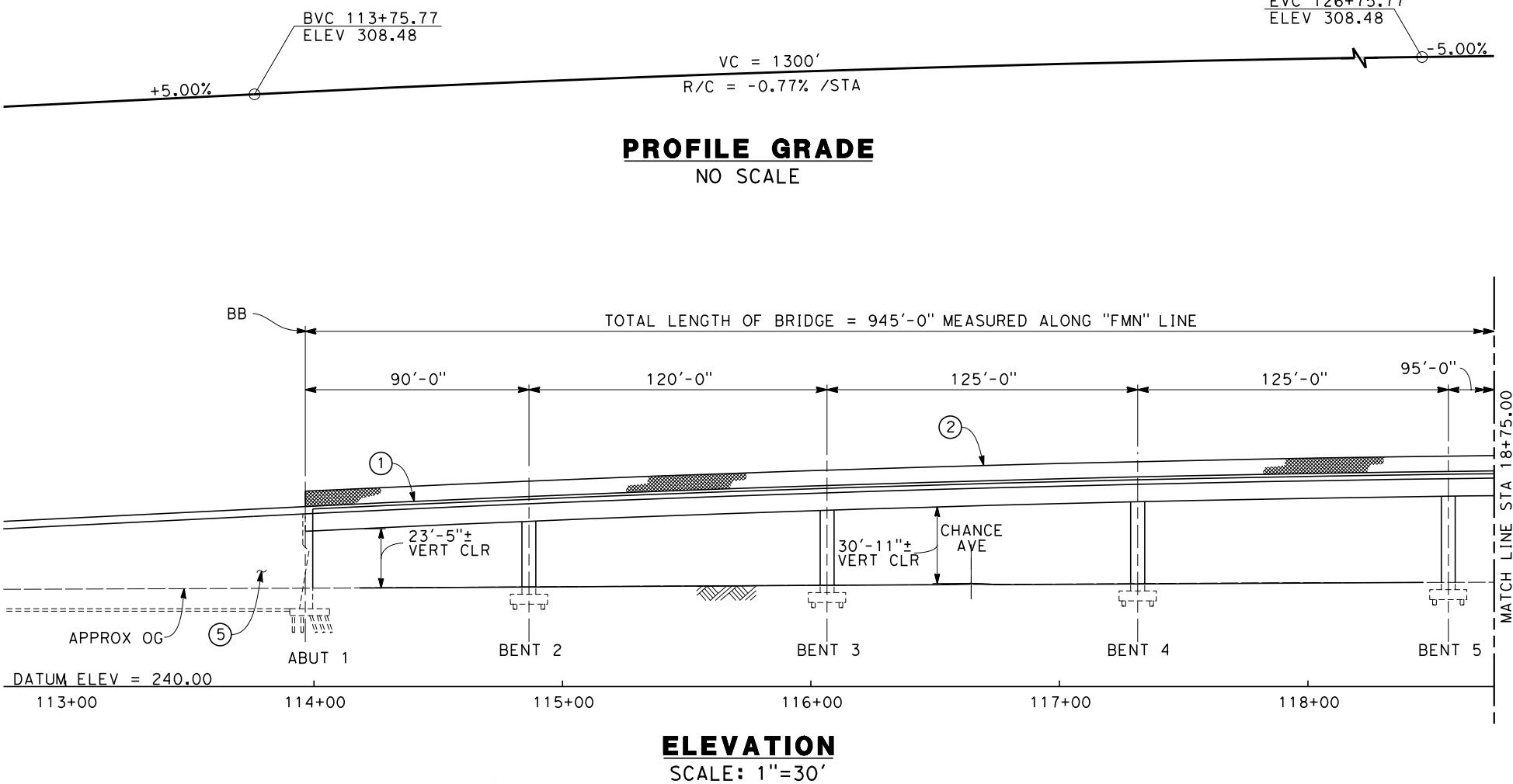


NOTES:
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

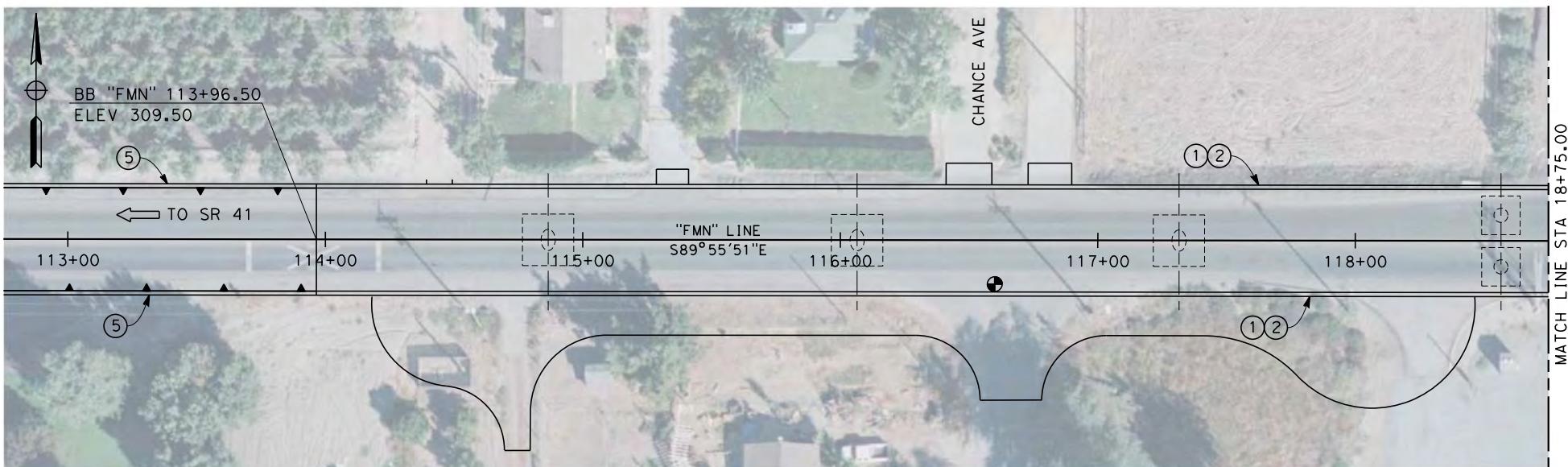
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



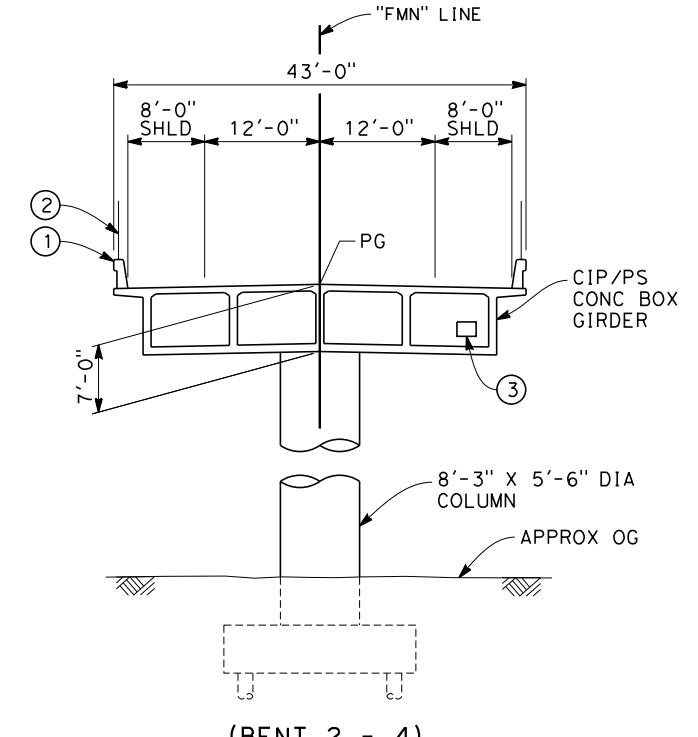


ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

				DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
				DRAWN BY T. PRETZER	-			MONMOUTH SUBSECTION ALIGNMENT M	DRAWING NO. ST2106
				CHECKED BY E. MORAN	NOT FOR CONSTRUCTION			OVERHEAD PLANNING STUDY E MANNING AVE	SCALE AS SHOWN
				IN CHARGE R. COFFIN					SHEET NO. 5 OF 9
PRE45072	REV	DATE	BY	CHK	APP	DESCRIPTION	DATE	12/31/13	



TYPICAL SECTION

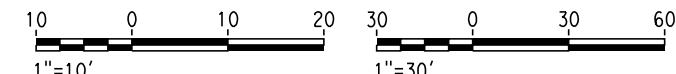
SCALE: 1"=10'

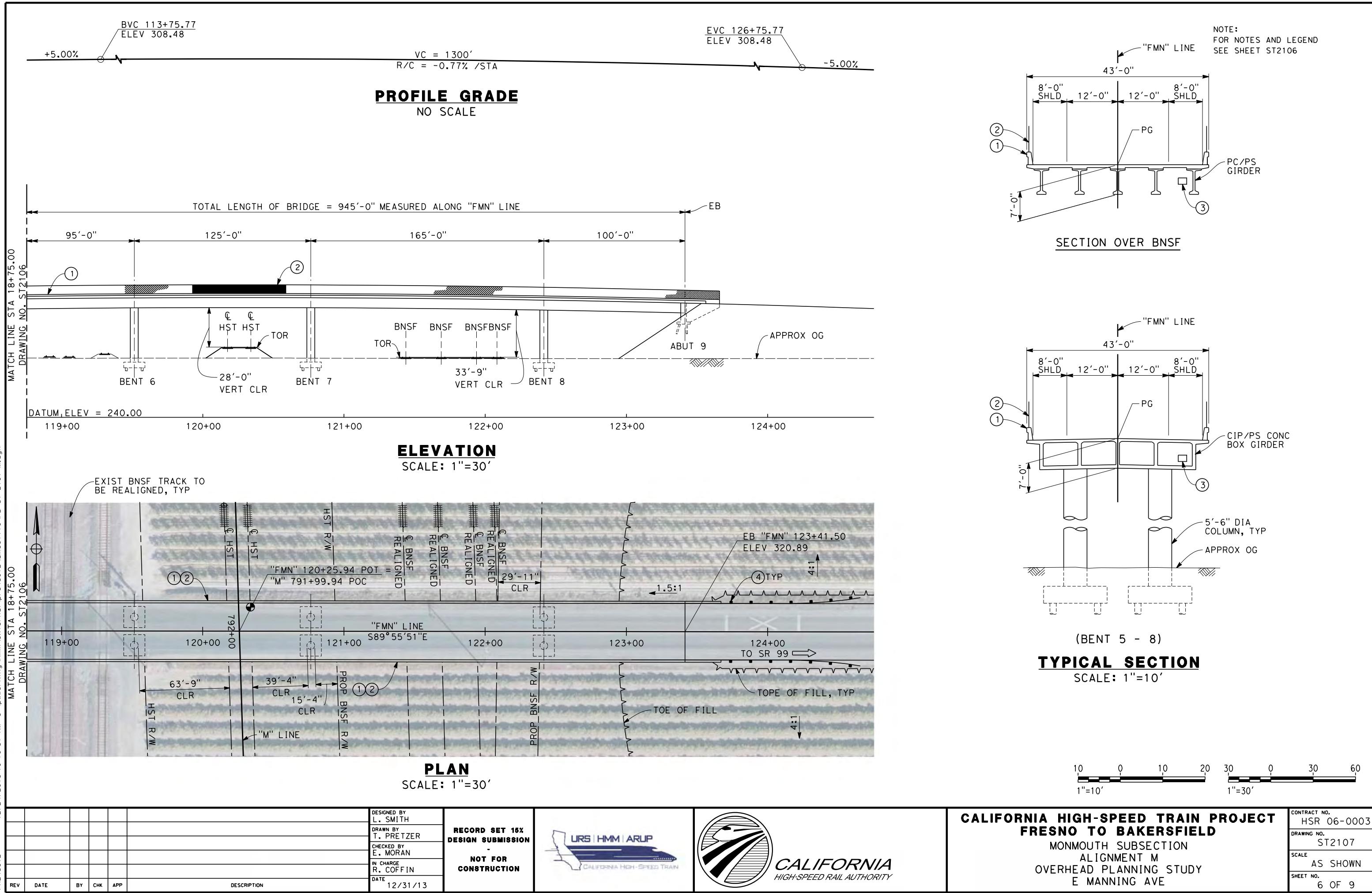
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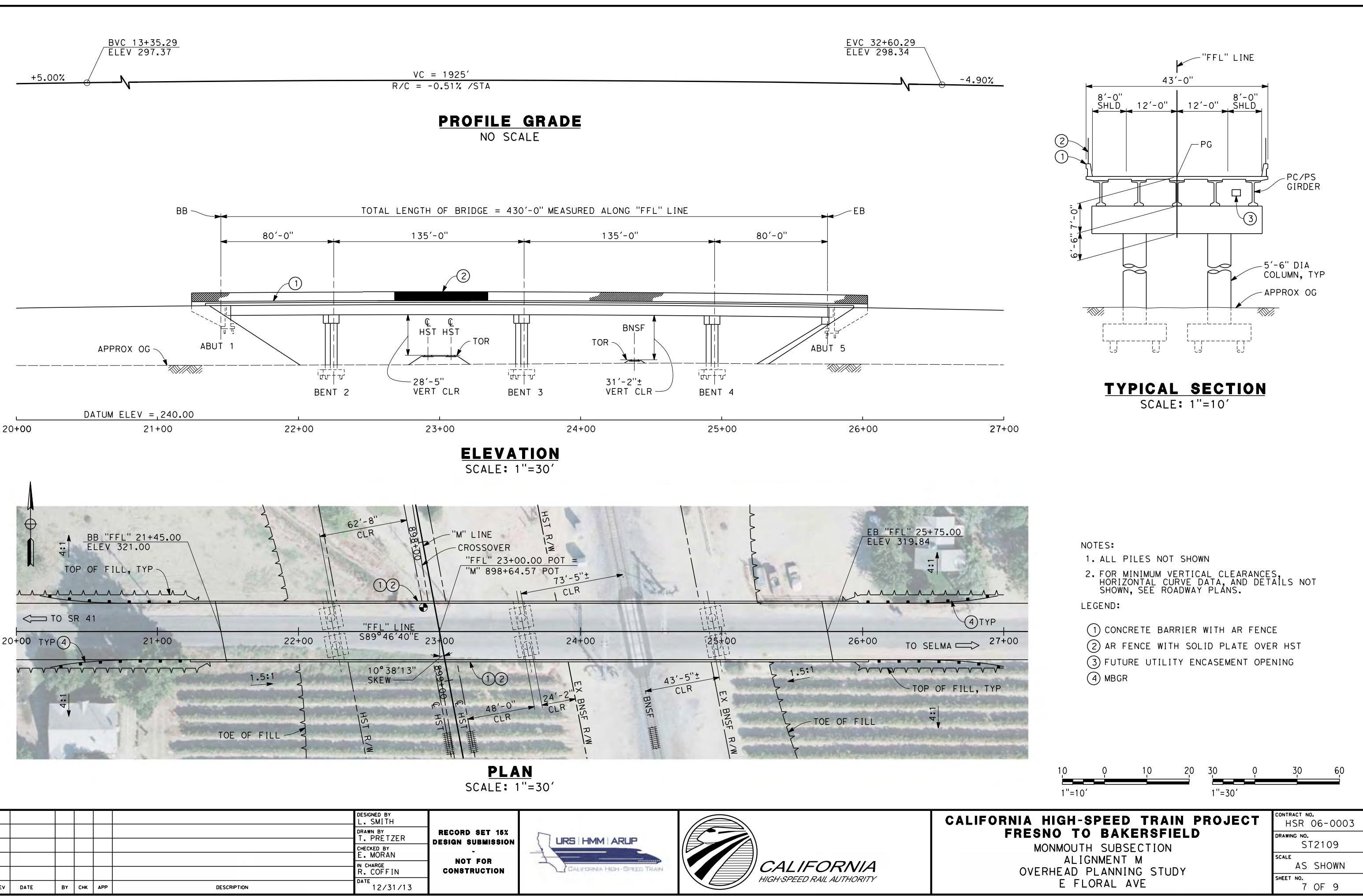
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

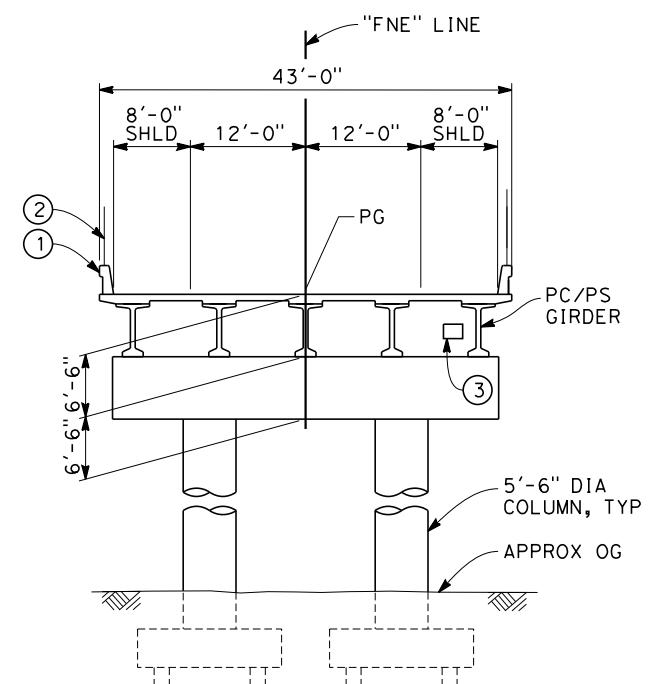
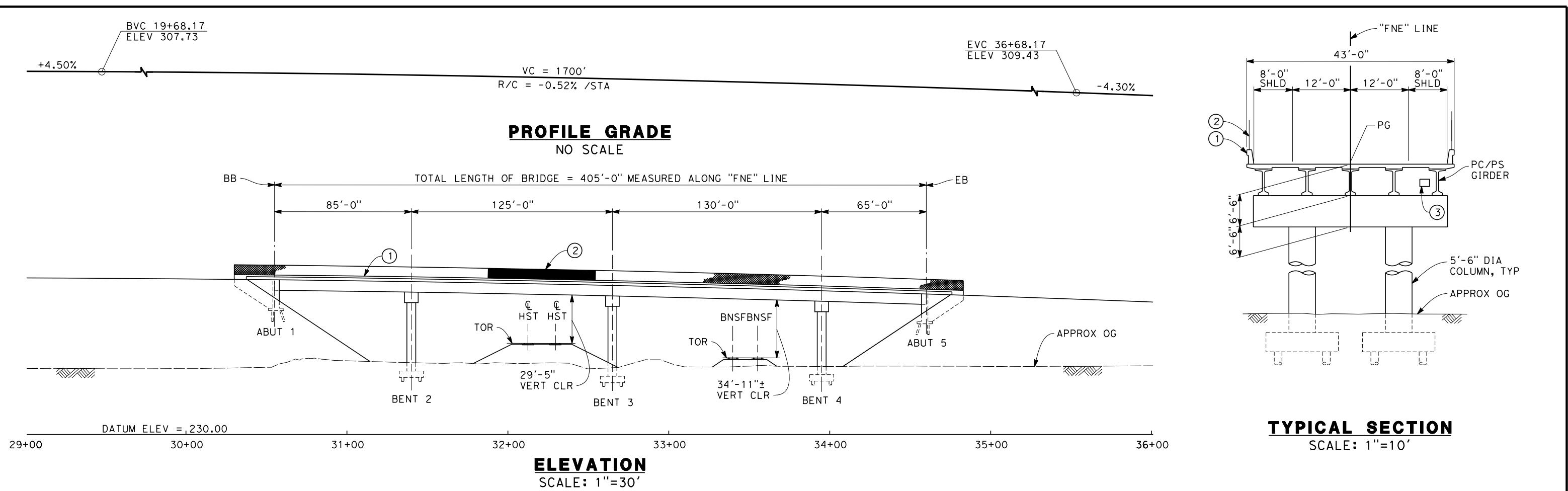
LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL WITH BARRIER

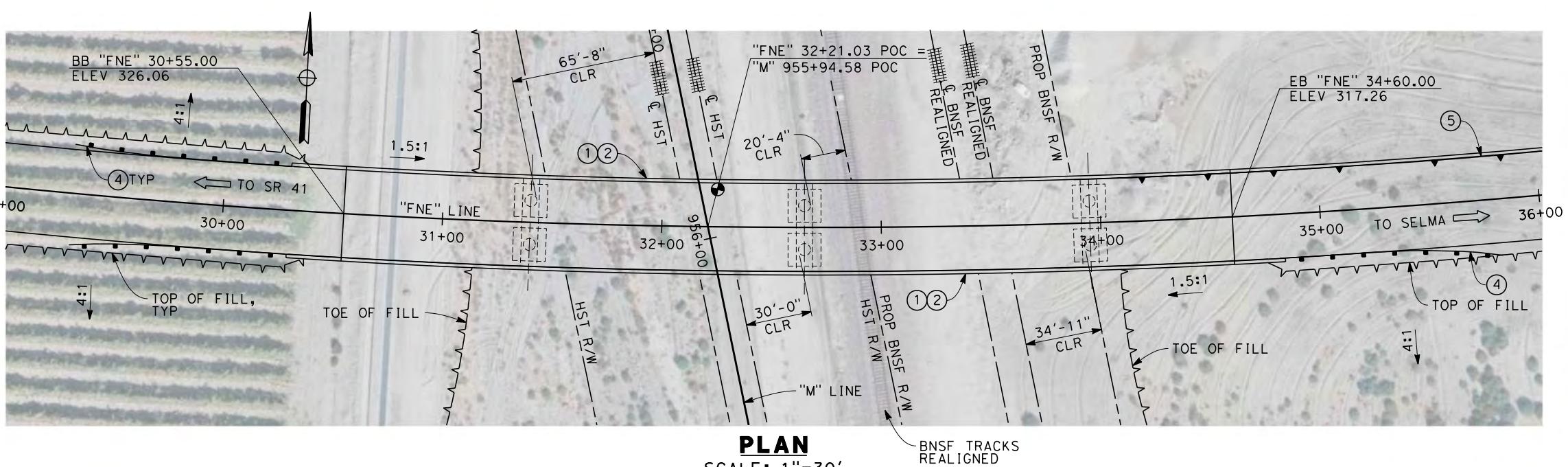








TYPICAL SECTION
SCALE: 1"=10'



NOTES:
 1. ALL PILES NOT SHOWN
 2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL

10 0 10 20 30 0 30 60
1"=10' 1"=30'

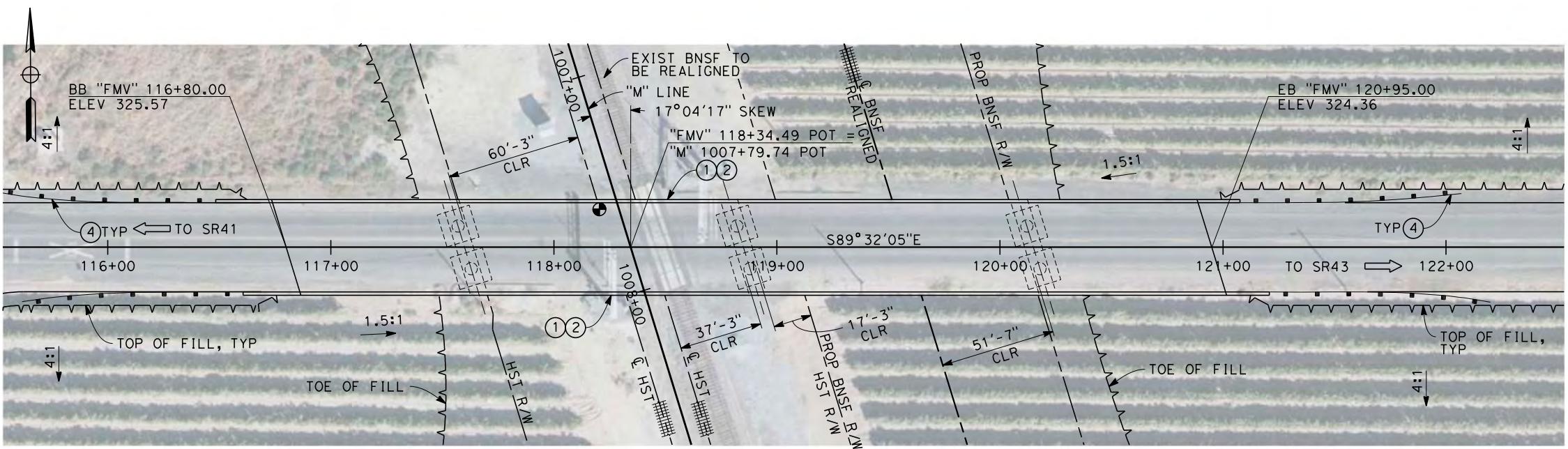
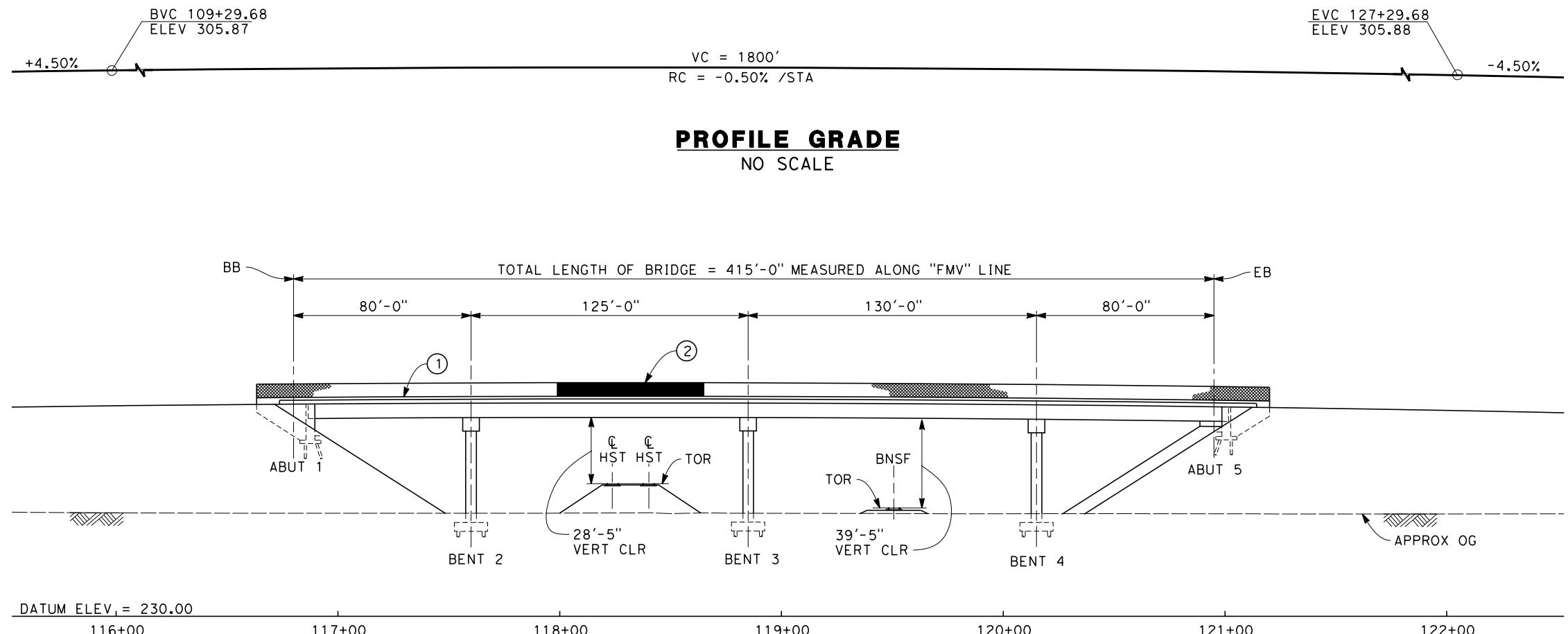
DATE BY CHK APP

DESCRIPTION

DESIGNED BY L. SMITH
DRAWN BY T. PRETZER
CHECKED BY E. MORAN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION
- NOT FOR CONSTRUCTION





TYPICAL SECTION
SCALE: 1"=10'

SCALE: 1"=10'

NOTES:

1. ALL FILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES,
HORIZONTAL CURVE DATA, AND DETAILS NOT
SHOWN. SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

1"=10'
1"=30'

DESIGNED BY L. SMITH
DRAWN BY T. PRETZER
CHECKED BY E. MORAN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

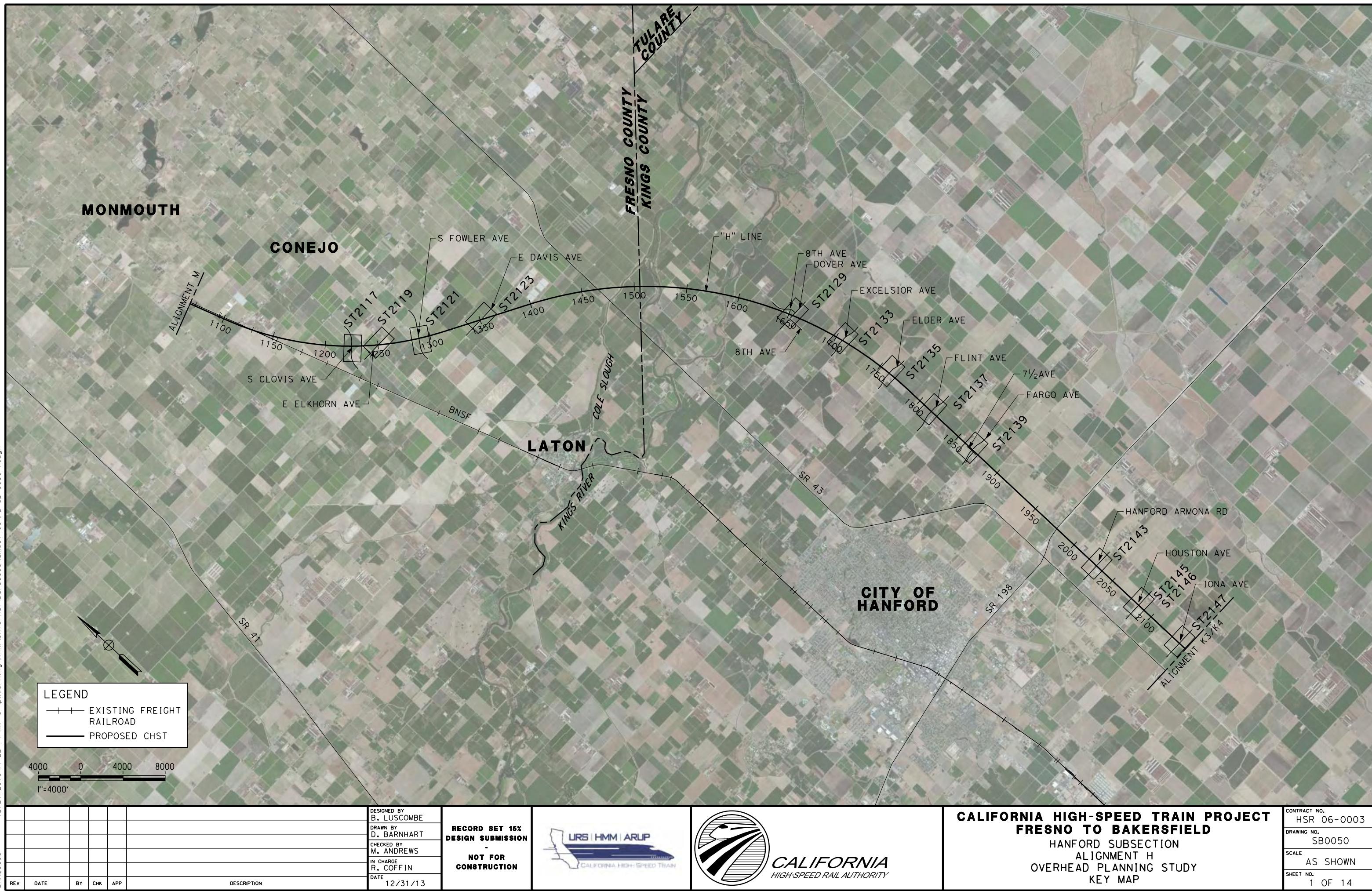
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CONSTRUCTION**

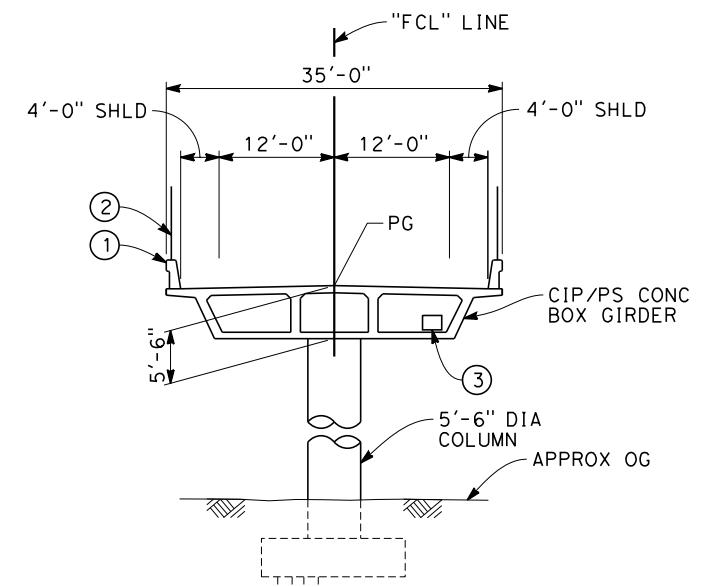
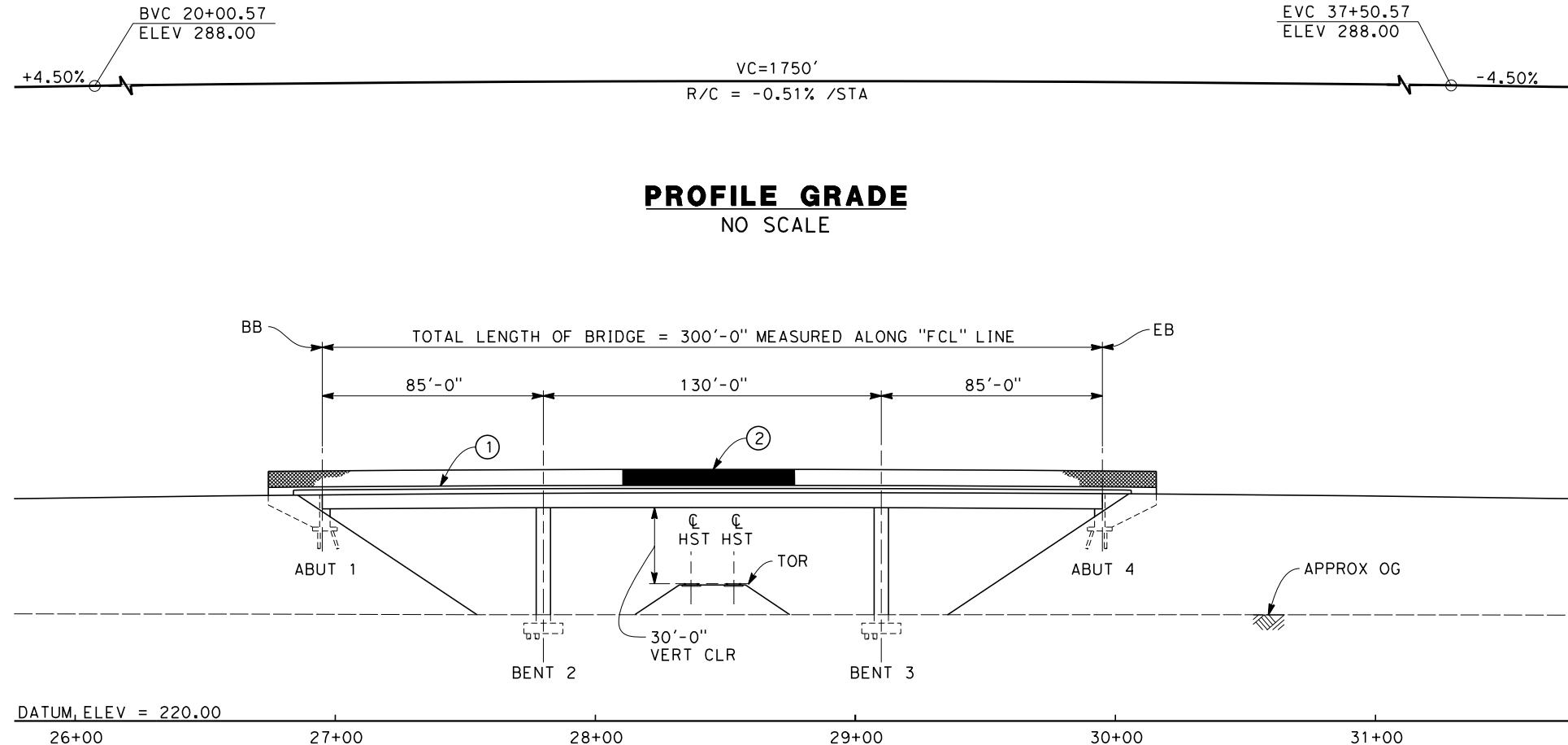


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

MONMOUTH SUBSECTION
ALIGNMENT M
OVERHEAD PLANNING STUDY
E MOUNTAIN VIEW AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2113
SCALE
AS SHOWN
HEET NO.
9 OF 9





TYPICAL SECTION
SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
PRE45072					

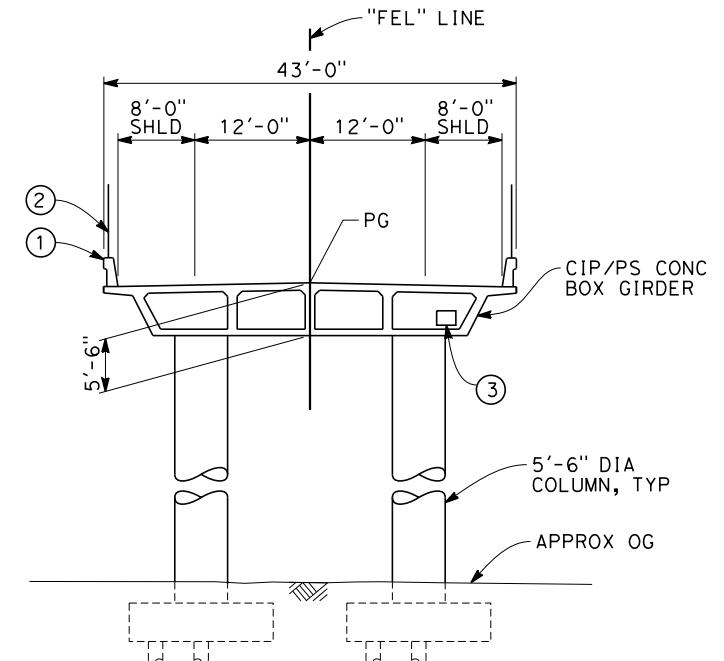
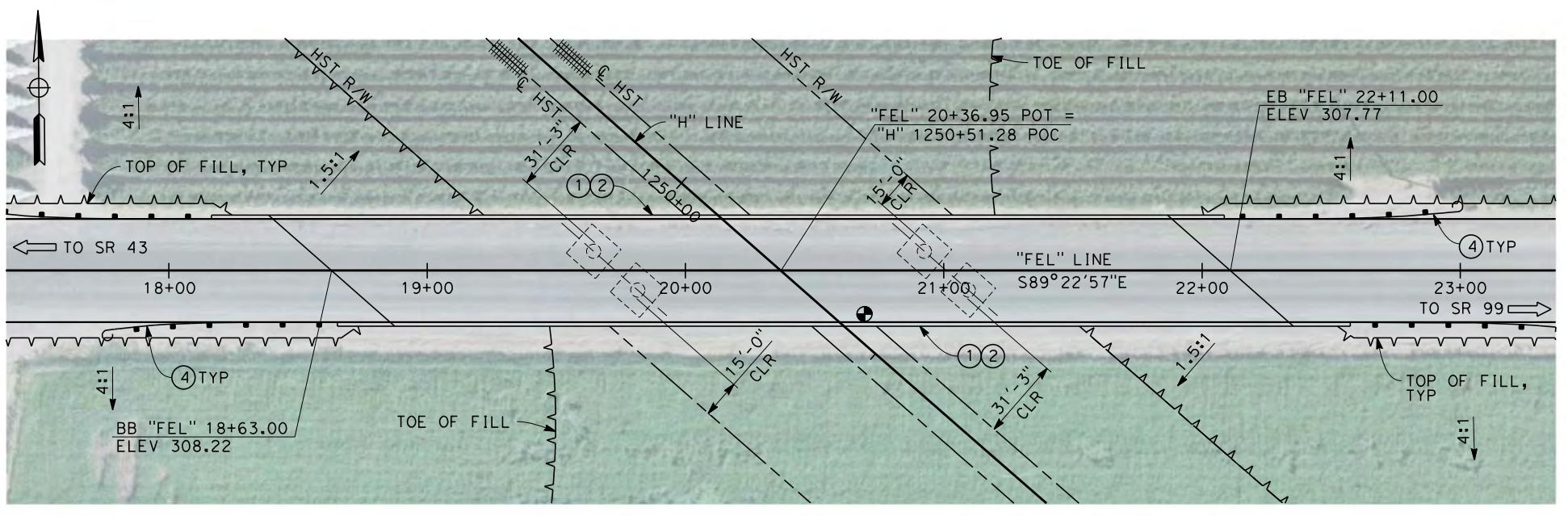
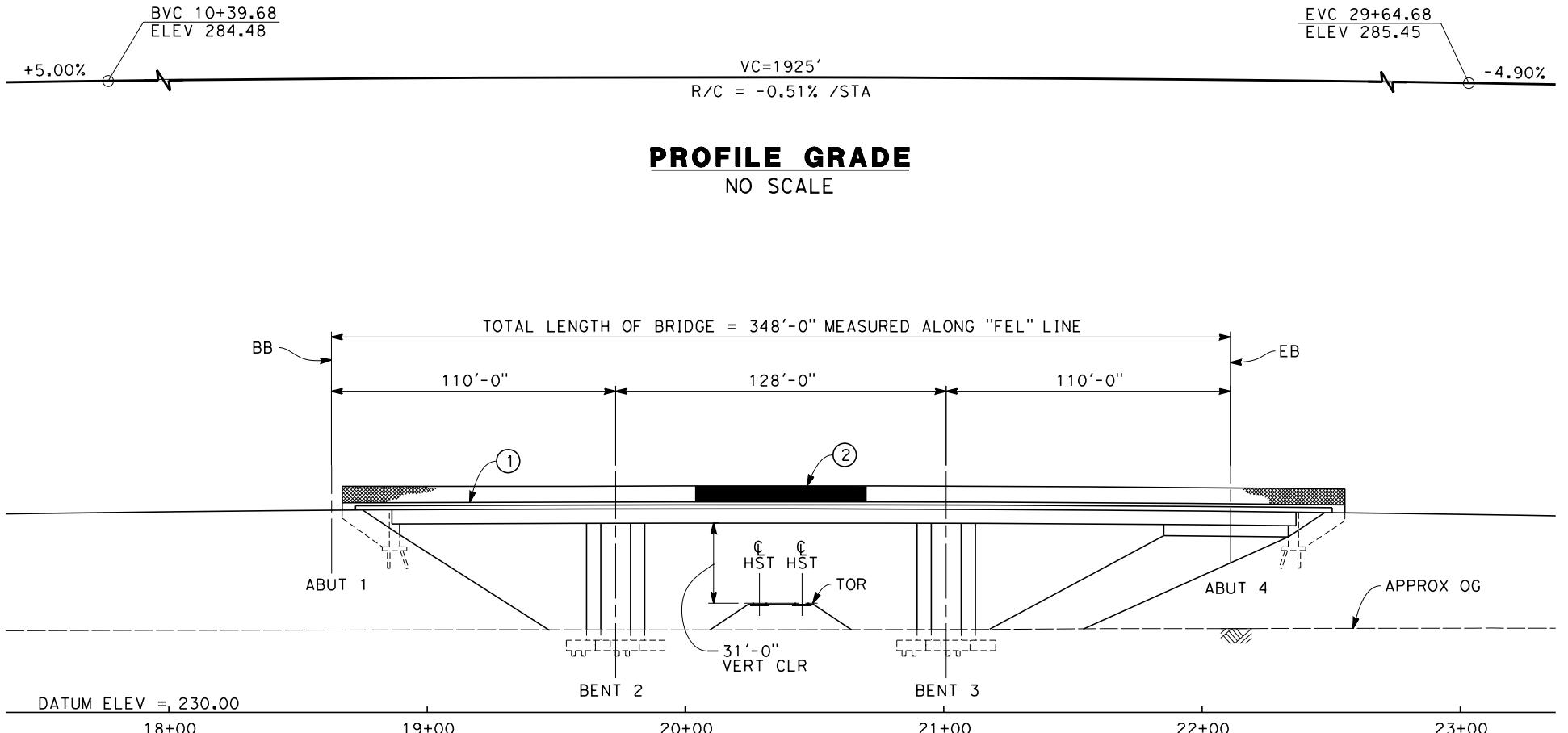
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
S CLOVIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2117
SCALE
AS SHOWN
SHEET NO.
2 OF 14



TYPICAL SECTION
SCALE: 1"=10'

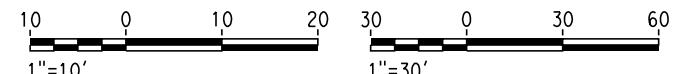
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MRGR



PRE45072 12/26

DESIGNED
B. LU
DRAWN BY
D. BA
CHECKED
M. AN
IN CHARGE
R. CO
DATE
12

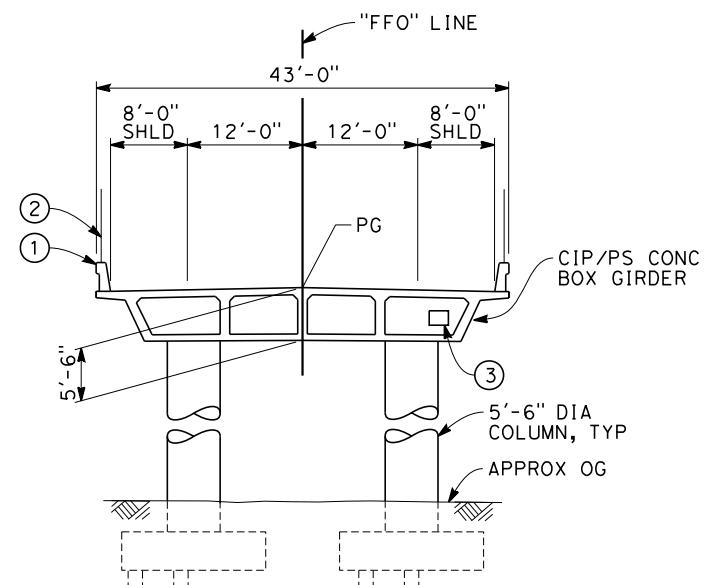
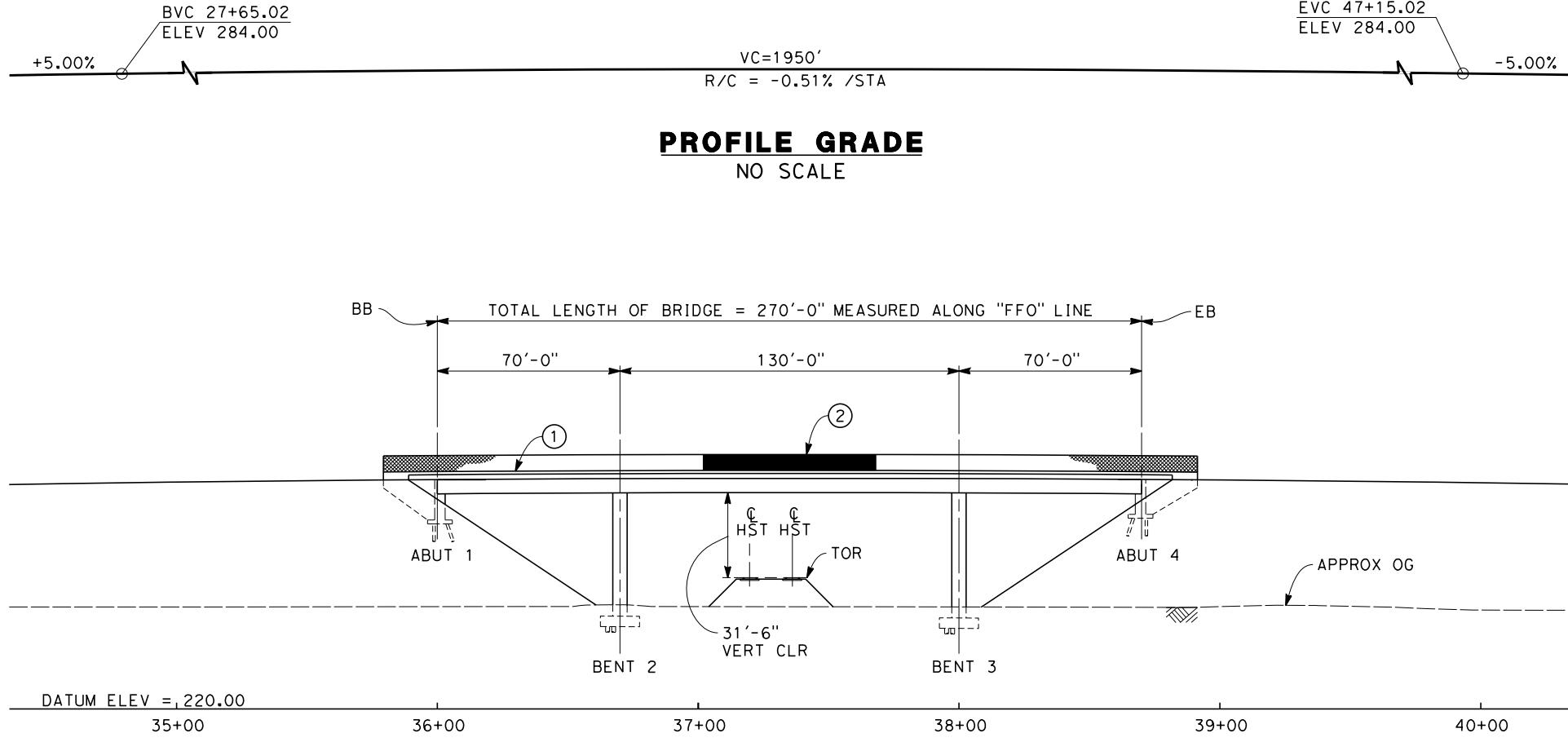
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DESIGN SUBMISSION
-
NOT FOR CONSTRUCTION



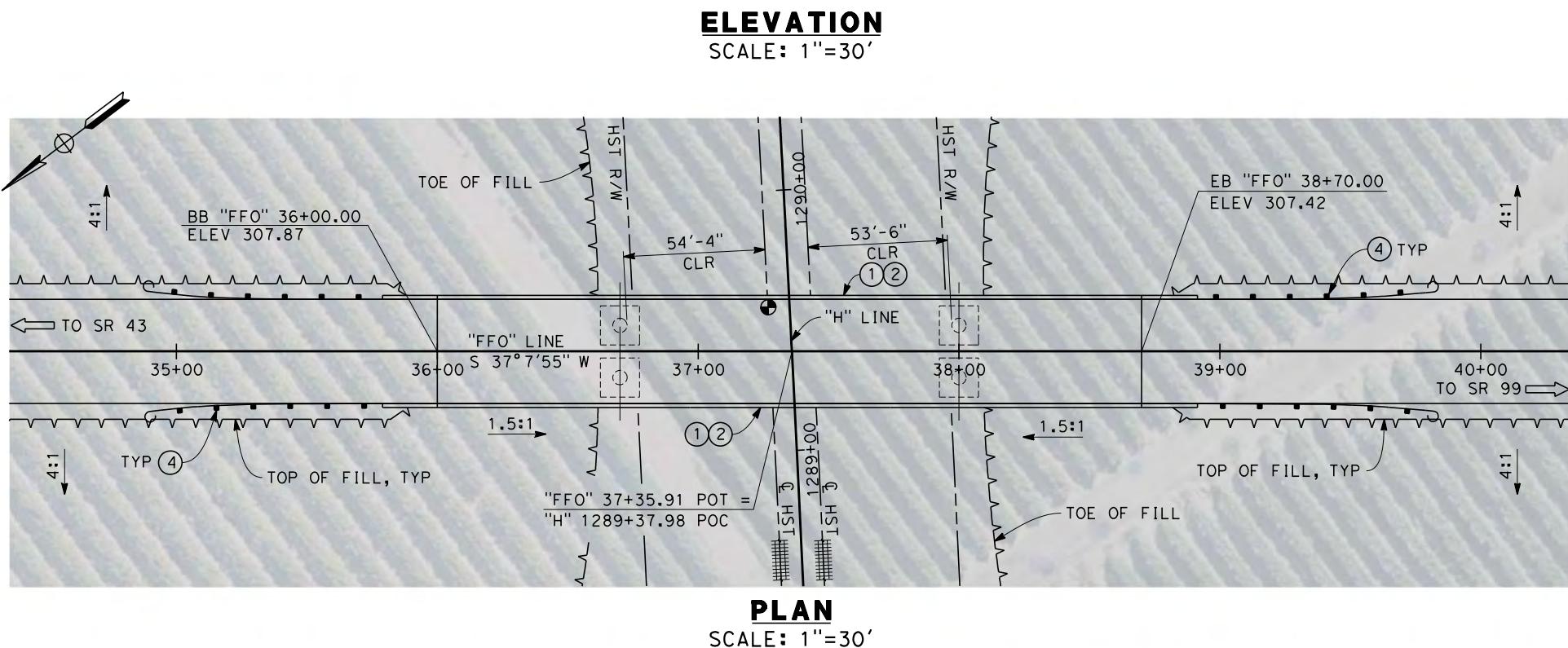
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
E ELKHORN AVE

TRACT NO.
HSR 06-0003
AWING NO.
ST2119
ALE
AS SHOWN
EET NO.
3 OF 14



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

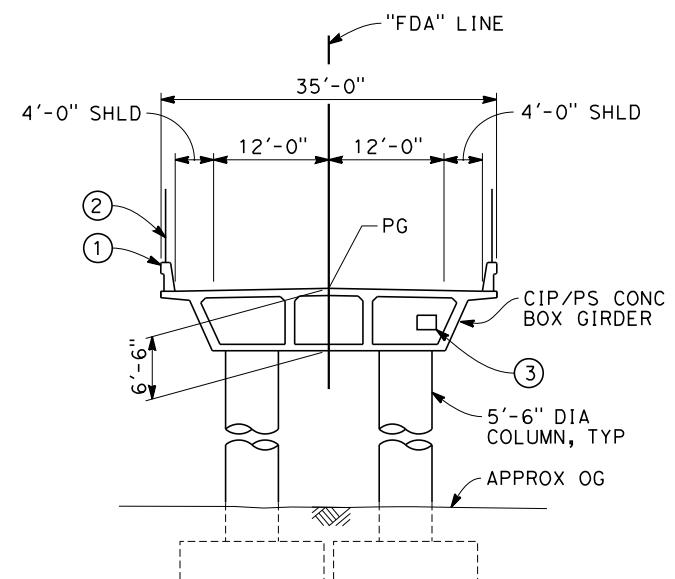
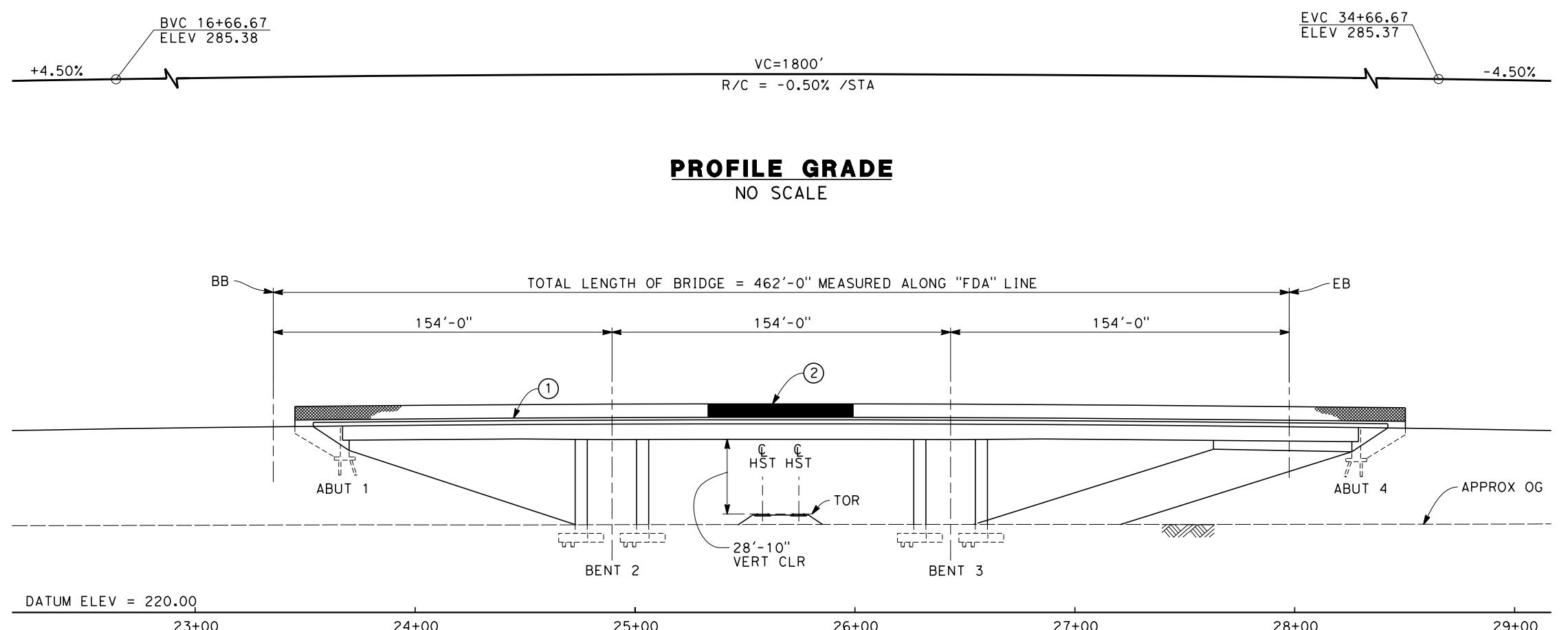
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

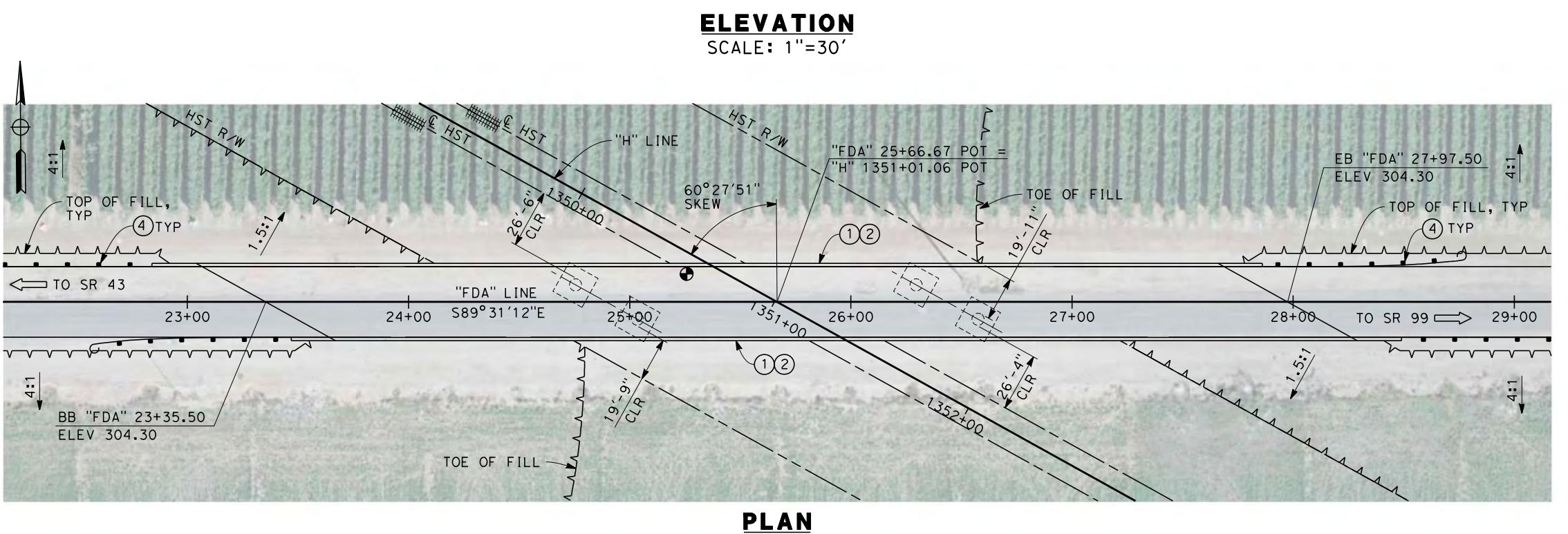
- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

DESIGNED BY B. LUSCOMBE	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-	CALIFORNIA HIGH-SPEED TRAIN	HANFORD SUBSECTION	DRAWING NO. ST2121
CHECKED BY M. ANDREWS	NOT FOR CONSTRUCTION		ALIGNMENT H	SCALE
IN CHARGE R. COFFIN			OVERHEAD PLANNING STUDY	AS SHOWN
DATE 12/31/13	DESCRIPTION		S FOWLER AVE	SHEET NO. 4 OF 14
REV	DATE	BY	CHK	APP



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

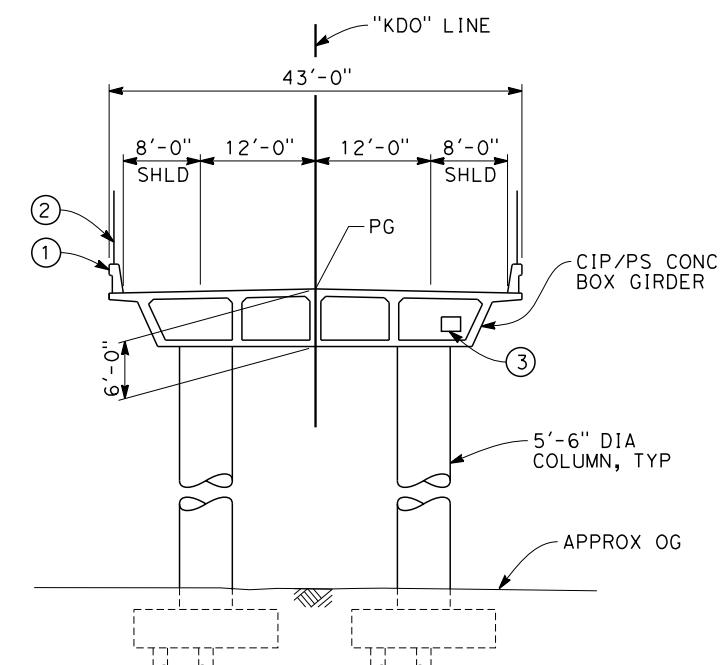
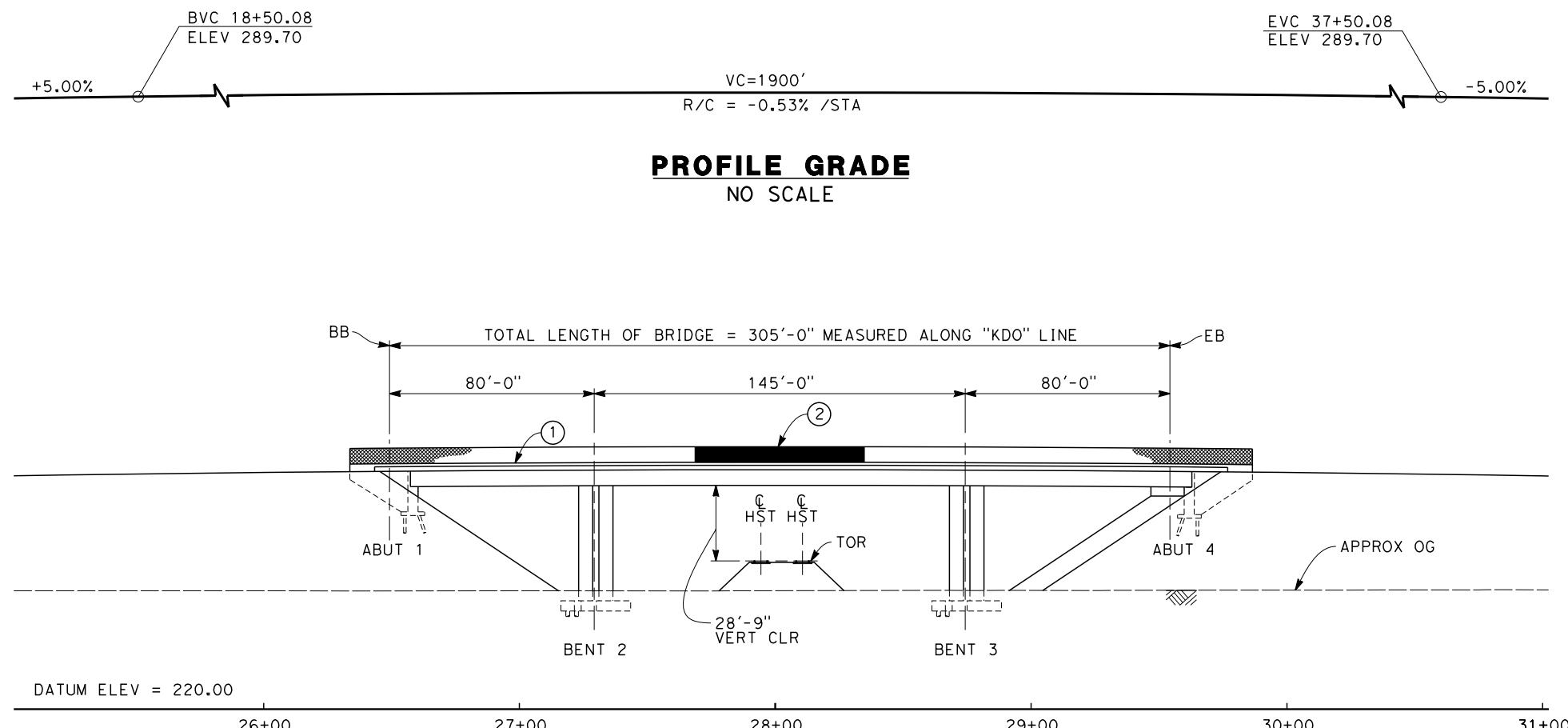
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

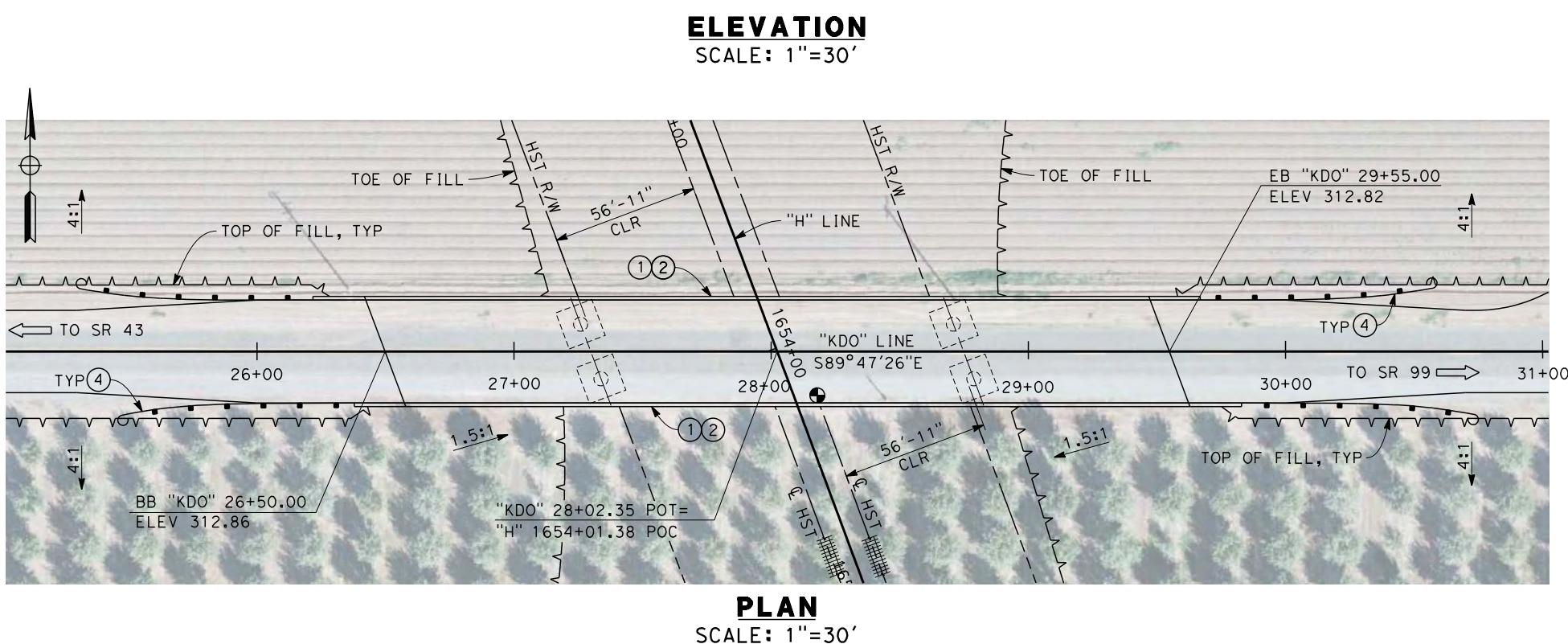
- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

				DESIGNED BY B. LUSCOMBE	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
				DRAWN BY D. BARNHART	-		HANFORD SUBSECTION	DRAWING NO. ST2123
				CHECKED BY M. ANDREWS	NOT FOR CONSTRUCTION		ALIGNMENT H	SCALE
				IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY	OVERHEAD PLANNING STUDY E DAVIS AVE	AS SHOWN
PRE45072	REV	DATE	BY	CHK	APP	DESCRIPTION		SHEET NO. 5 OF 14
						12/31/13		



TYPICAL SECTION
SCALE: 1"=10'



10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
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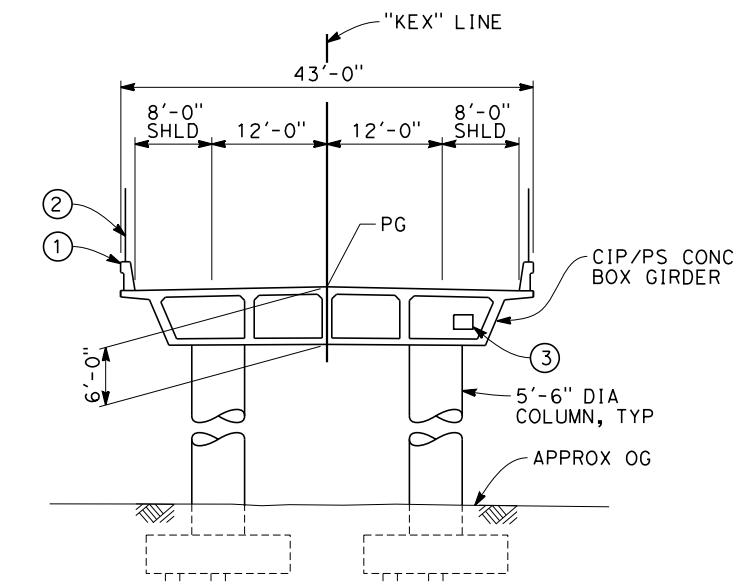
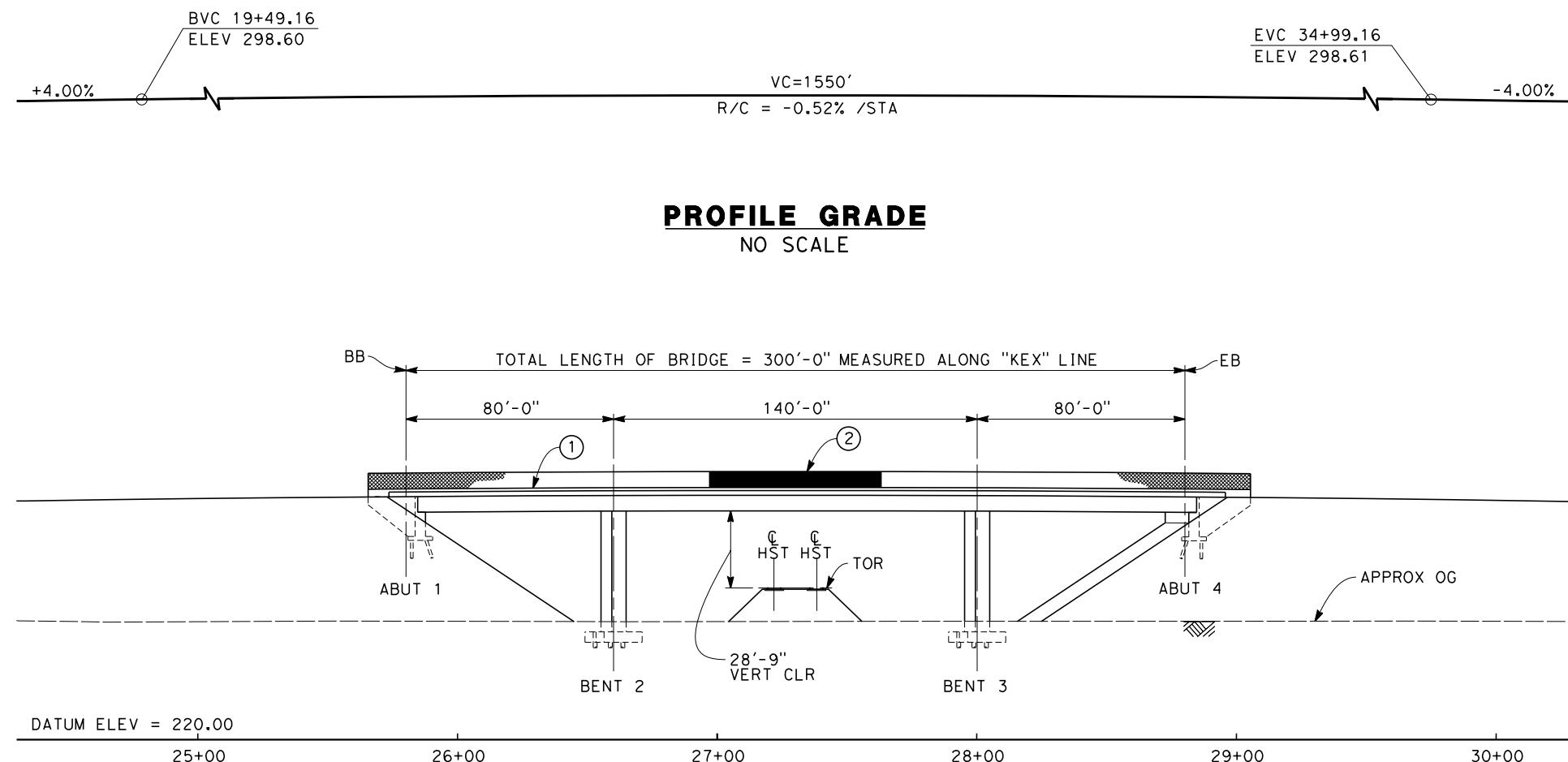
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



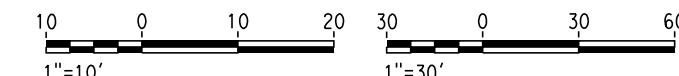
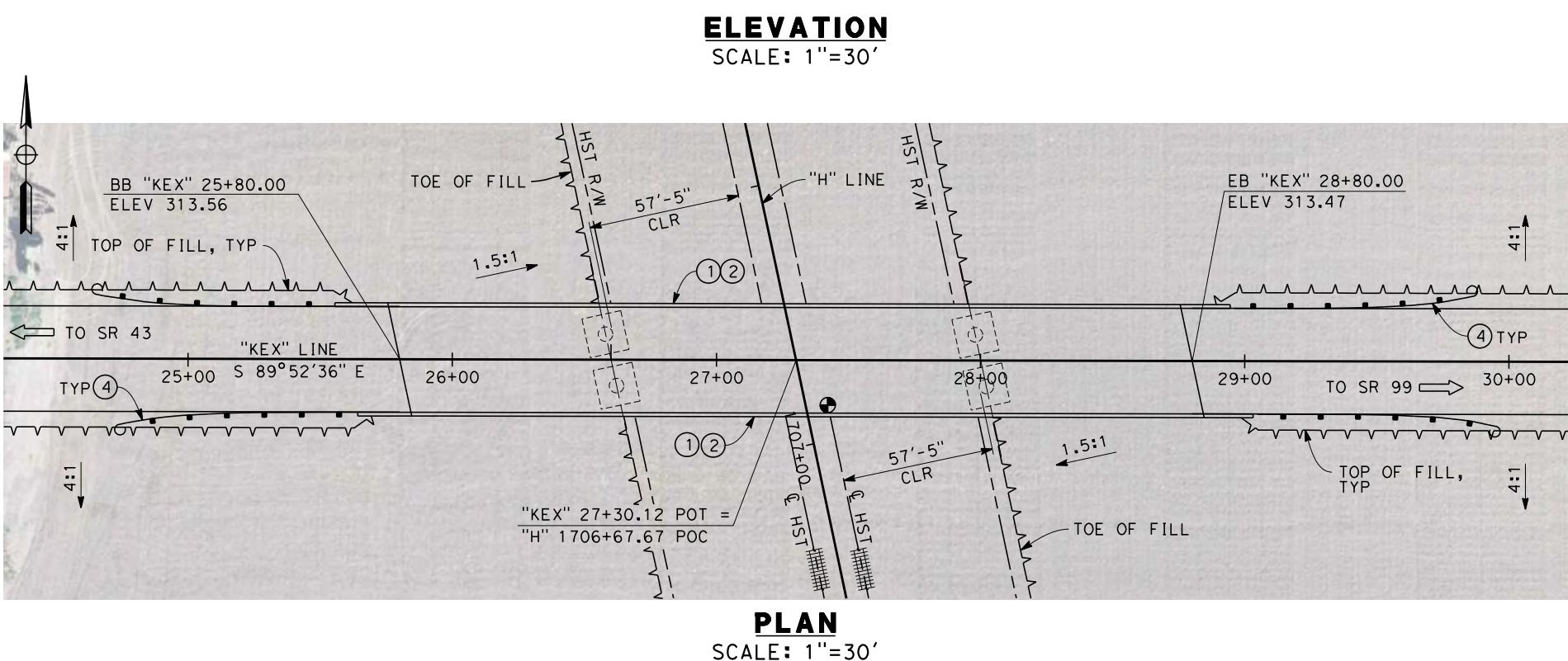
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
DOVER AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2129
SCALE
AS SHOWN
SHEET NO.
6 OF 14



TYPICAL SECTION

SCALE: 1"=10'



PRE45072

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

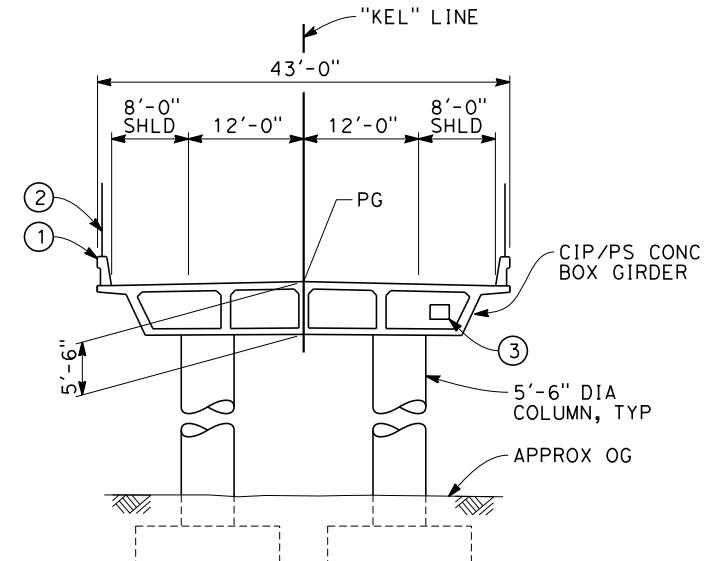
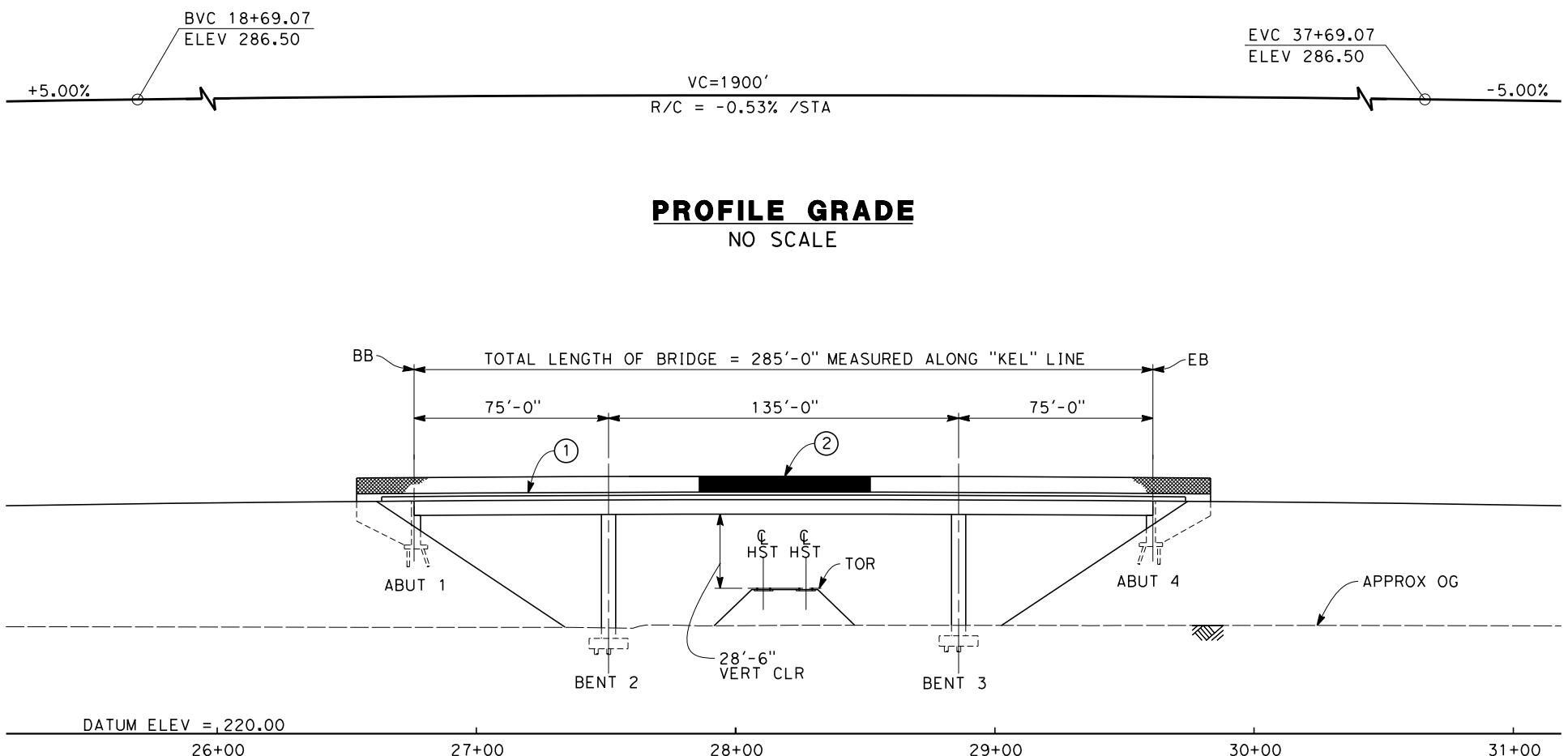
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



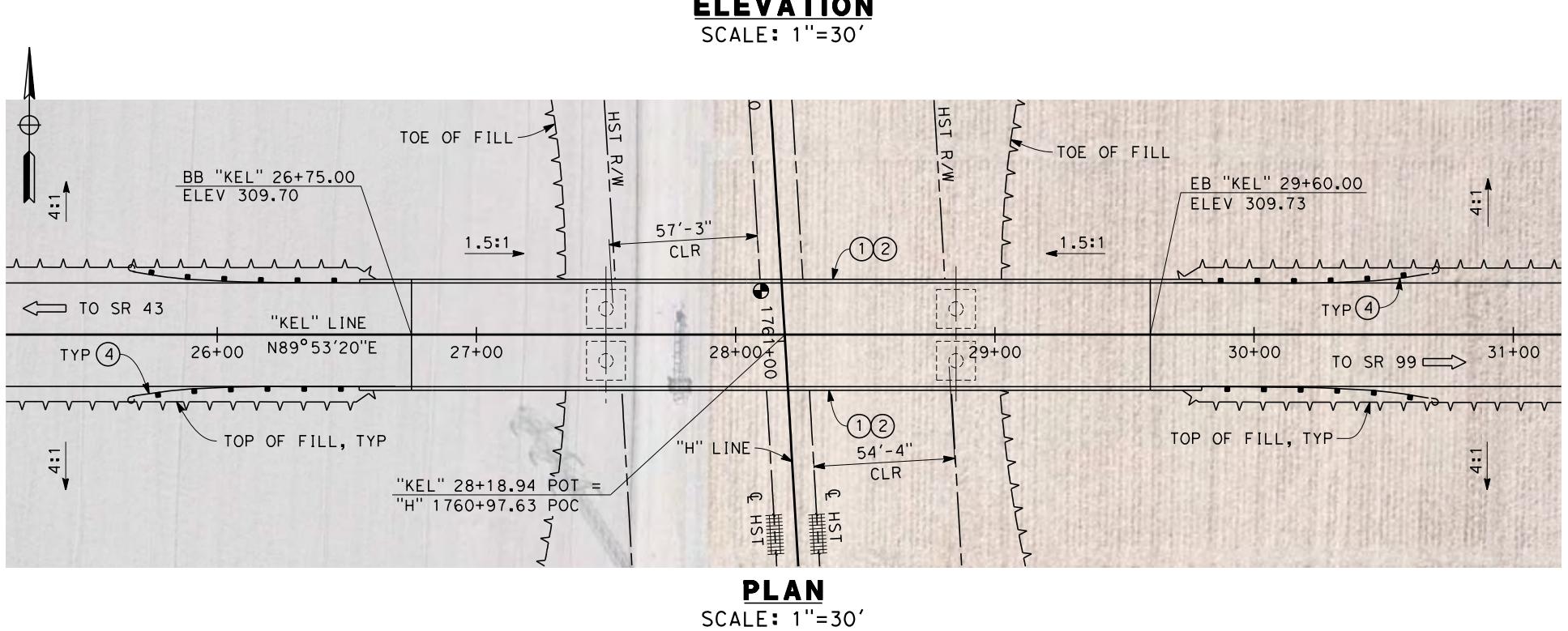
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
EXCELSIOR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2133
SCALE
AS SHOWN
SHEET NO.
7 OF 14



TYPICAL SECTION

SCALE: 1''=10'



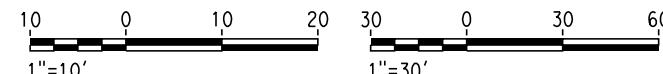
PLAN

NOTES:

1. ALL FILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



RECORD SET 15%
DESIGN SUBMISSION

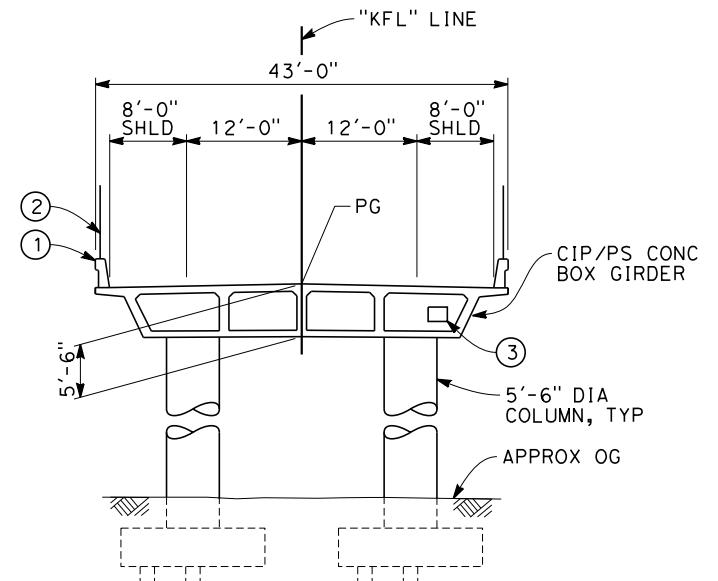
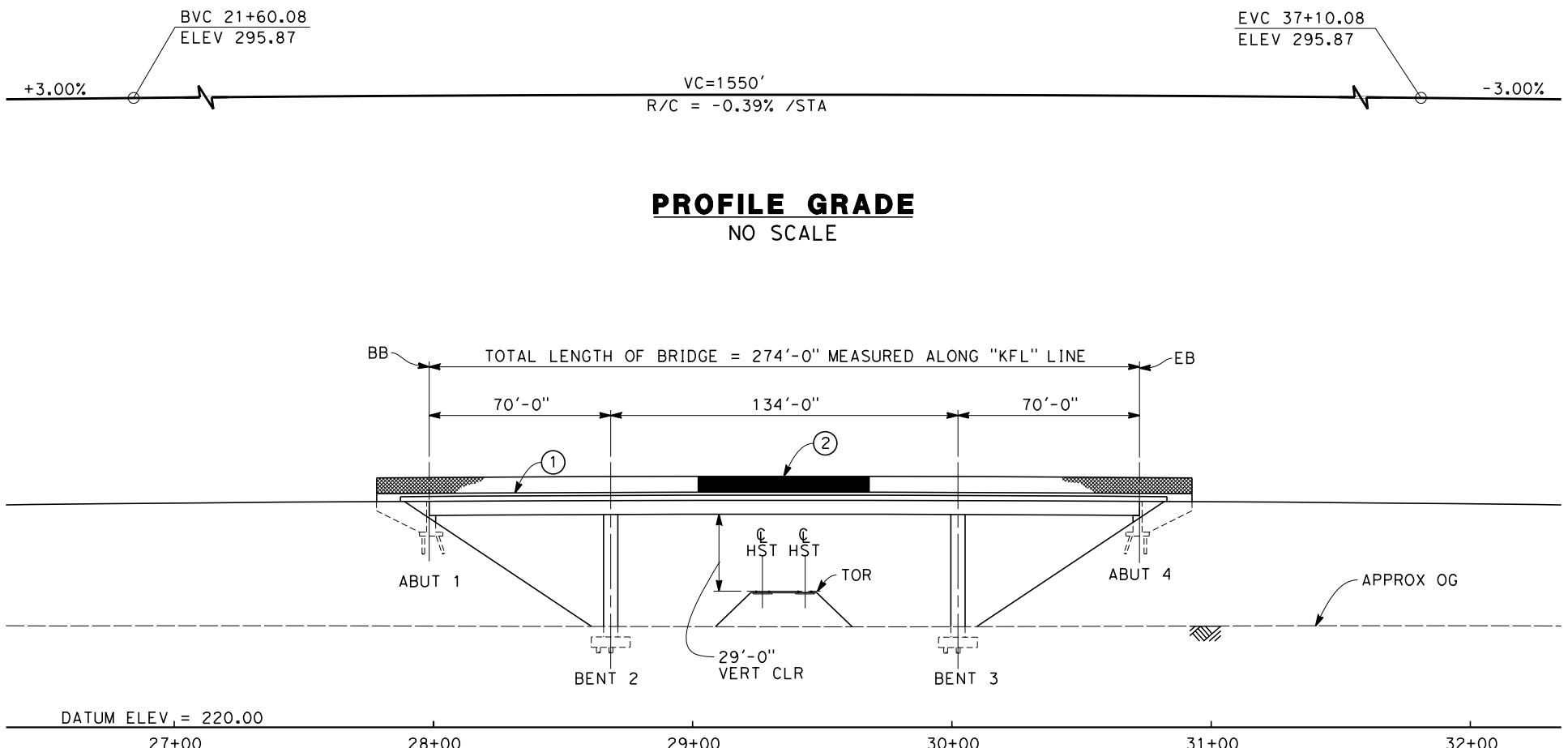
NOT FOR
CONSTRUCTION



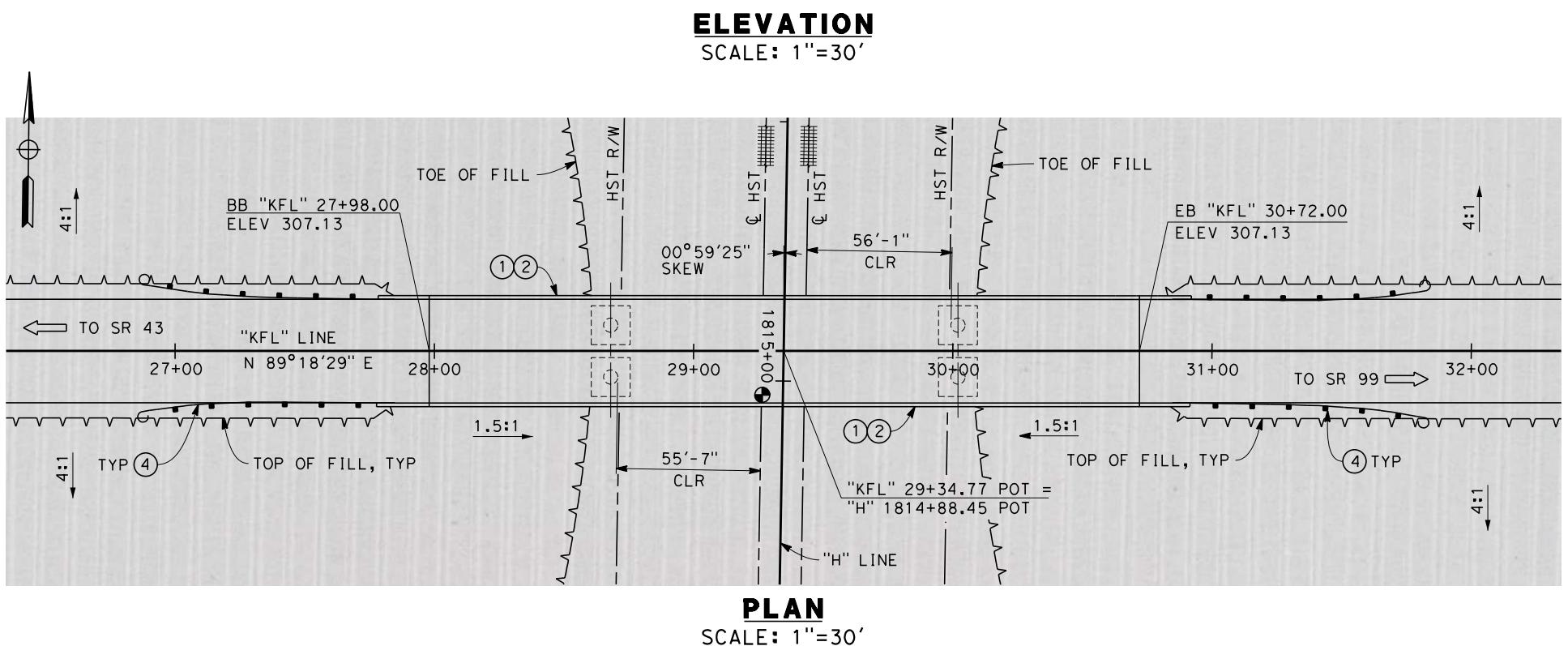
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
ELDER AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2135
SCALE
AS SHOWN
HEET NO.
8 OF 14



TYPICAL SECTION

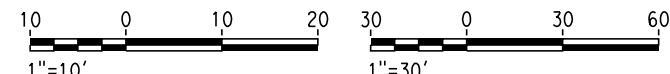


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

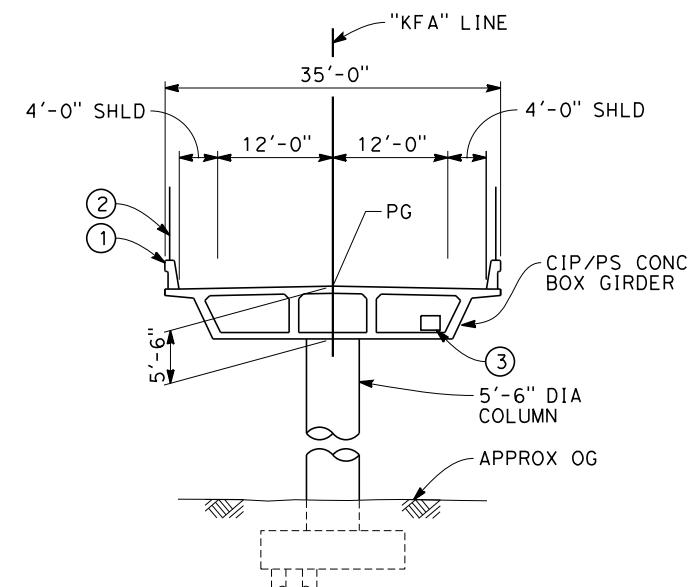
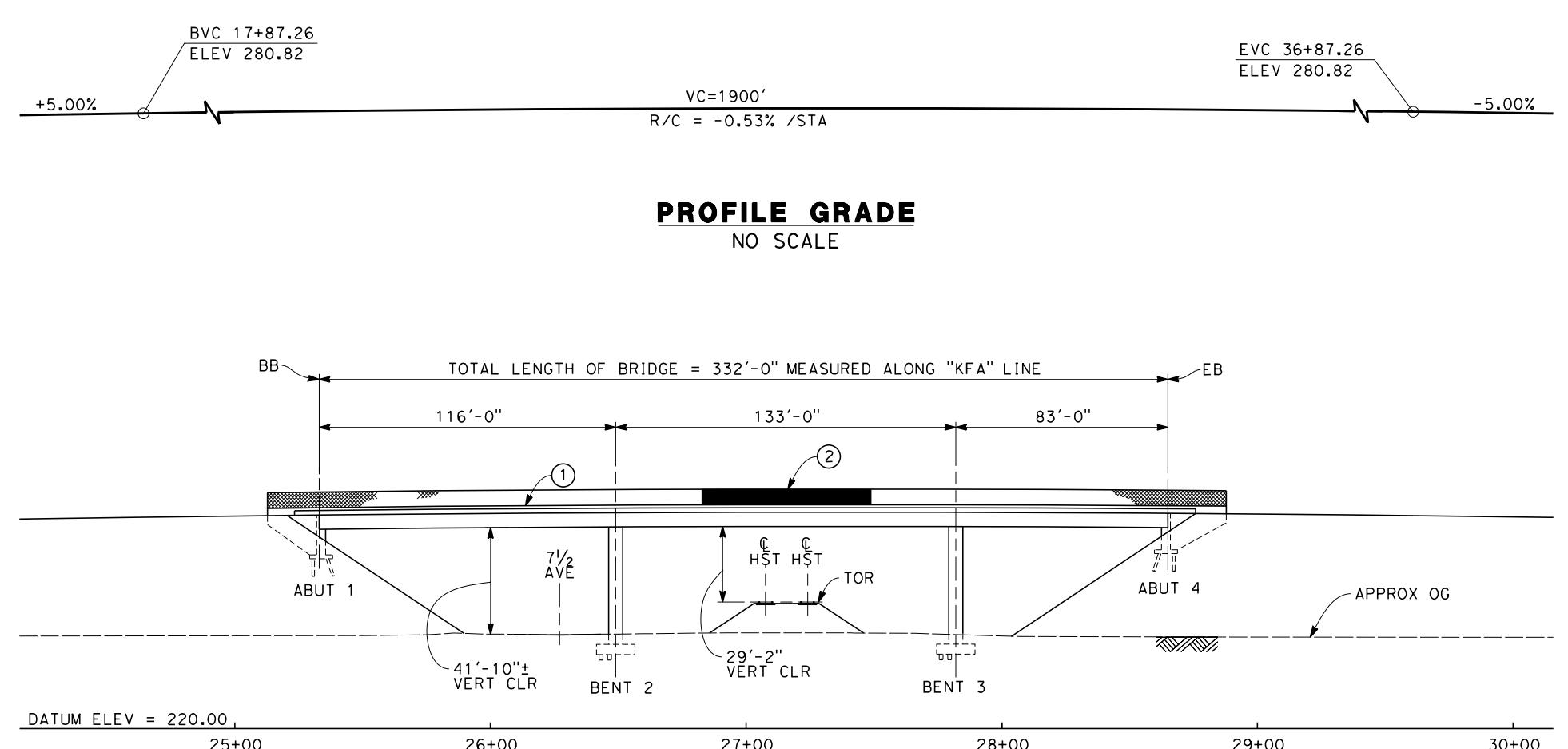
- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MRGR



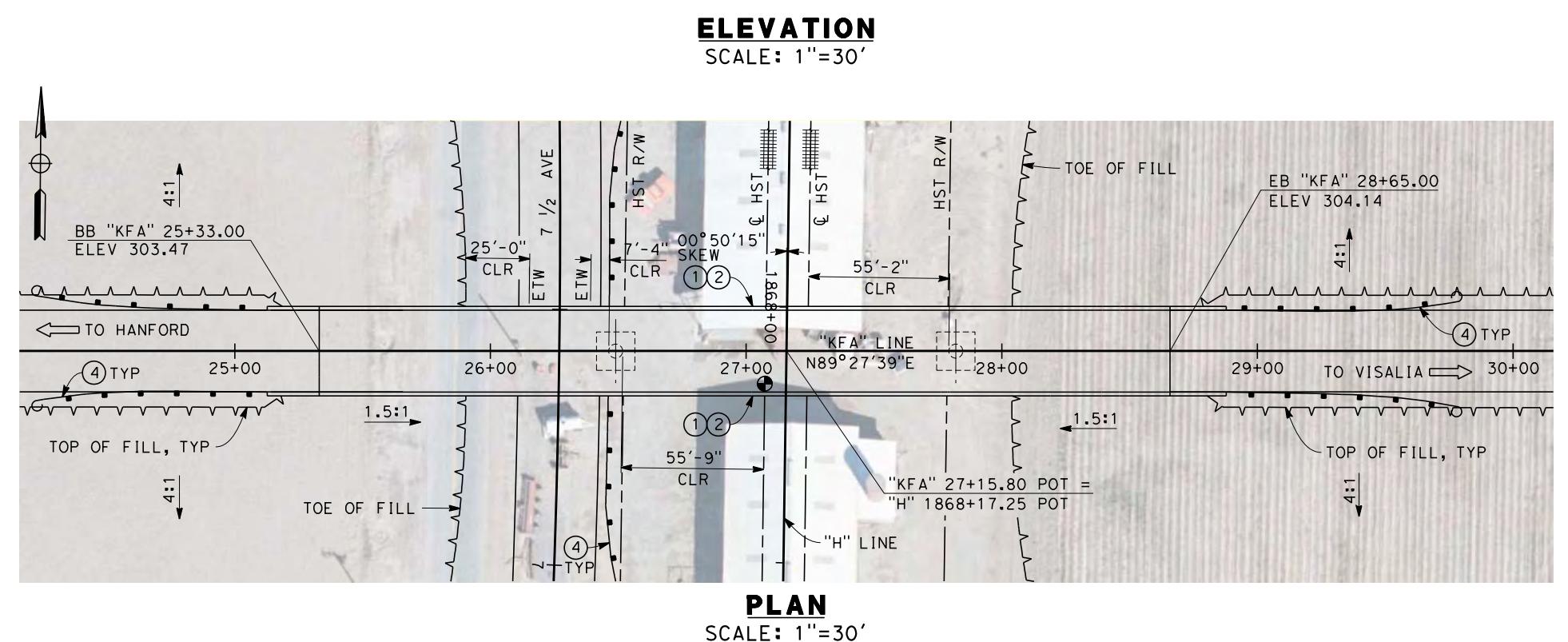
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
FLINT AVE

TRACT NO.
HSR 06-0003
AWING NO.
ST2137
ALE
AS SHOWN
ET NO.
9 OF 14



TYPICAL SECTION
SCALE: 1"=10'

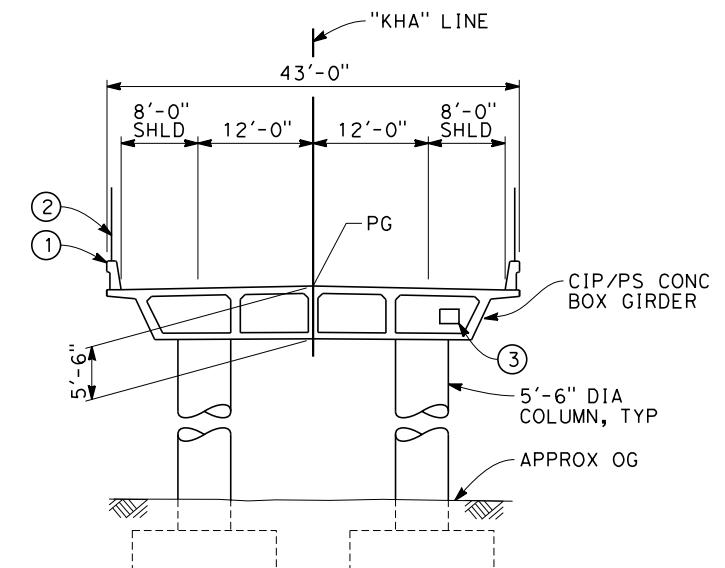
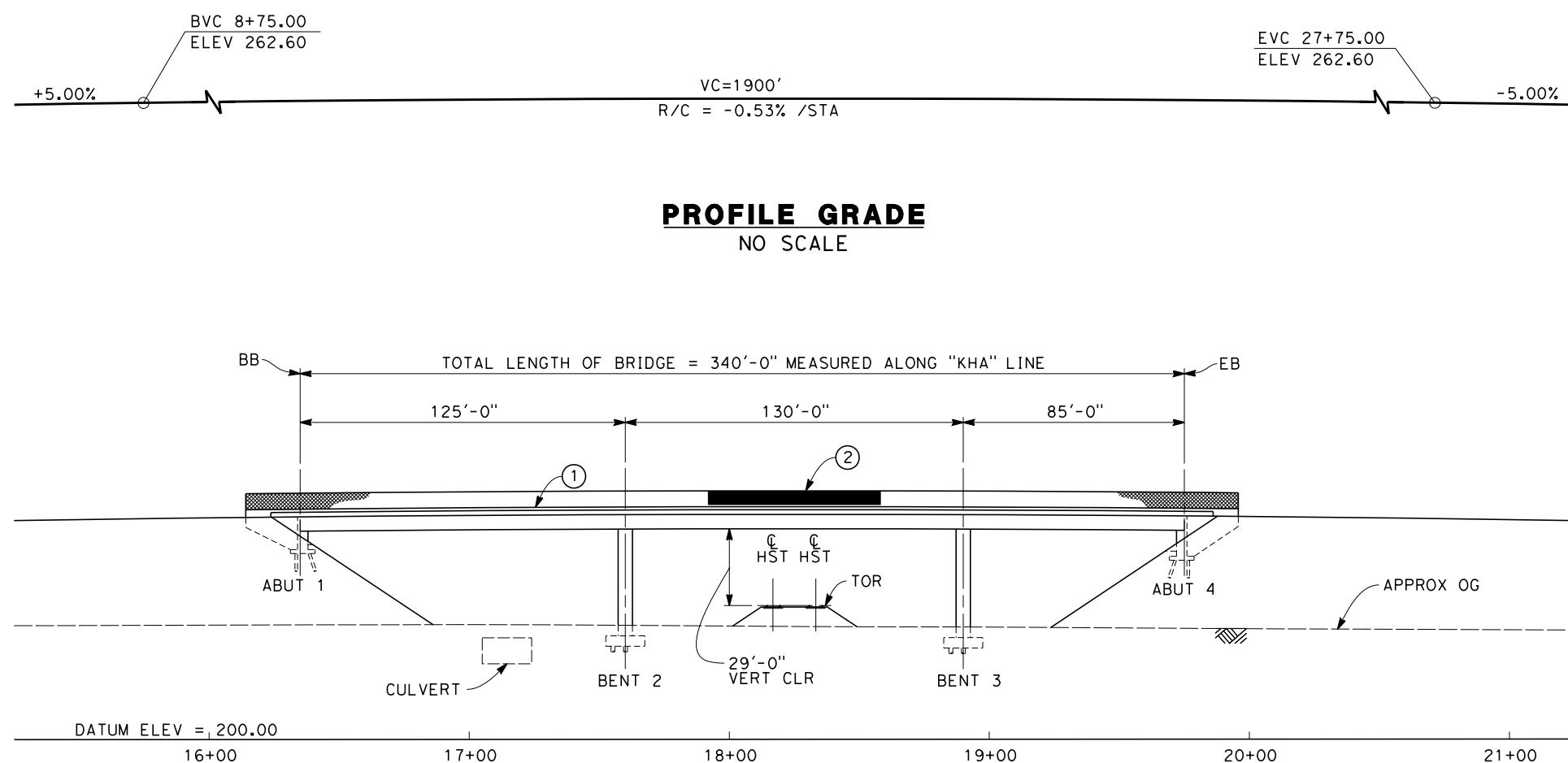


10 0 10 20 30 0 30 60
1"=10' 1"=30'

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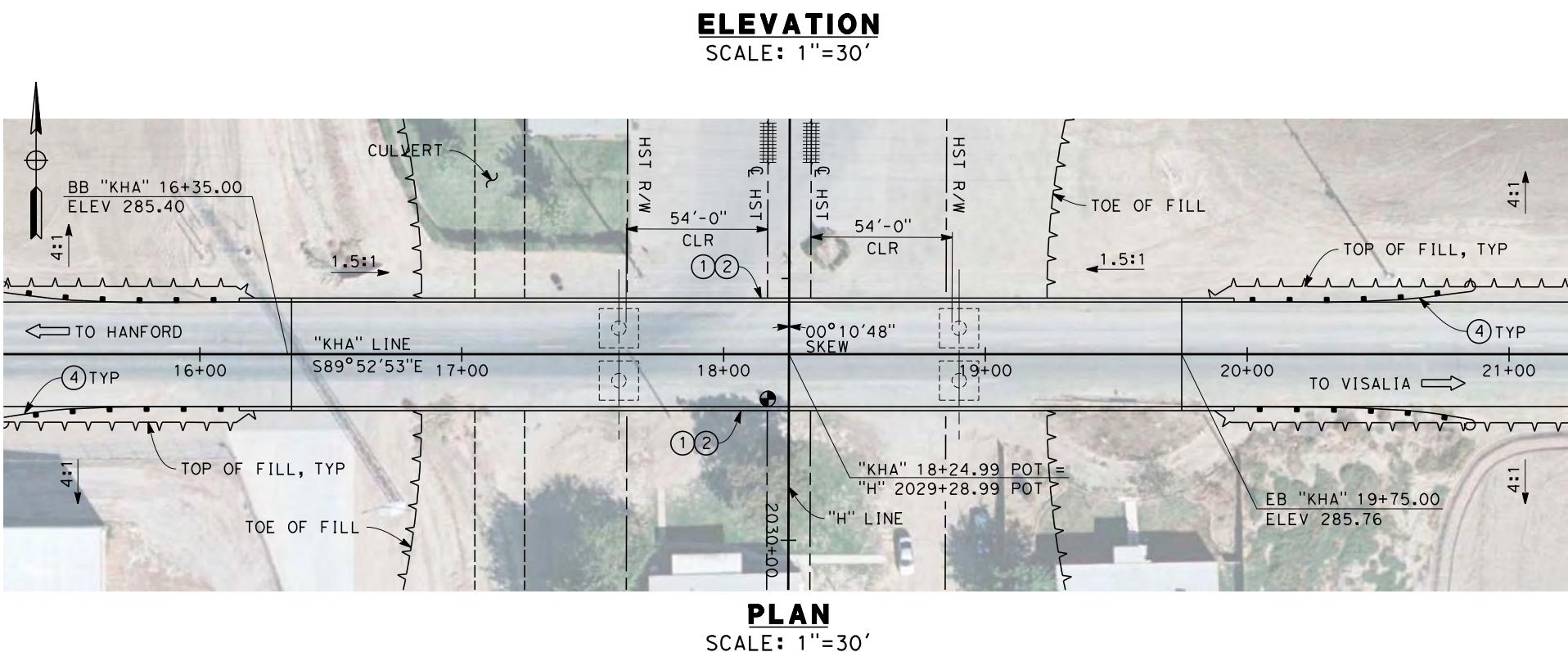
DESIGNED BY B. LUSCOMBE	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-			DRAWING NO. ST2139
CHECKED BY M. ANDREWS	-			SCALE
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION			AS SHOWN
DATE 12/31/13	DESCRIPTION			SHEET NO. 10 OF 14

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
FARGO AVE



TYPICAL SECTION

SCALE: 1"=10'

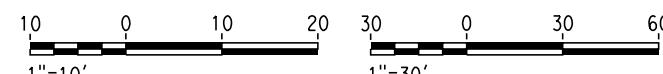


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
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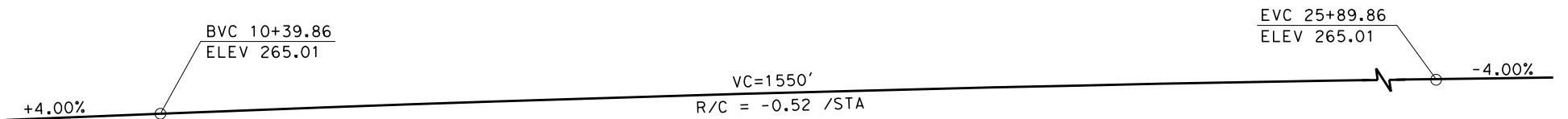
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



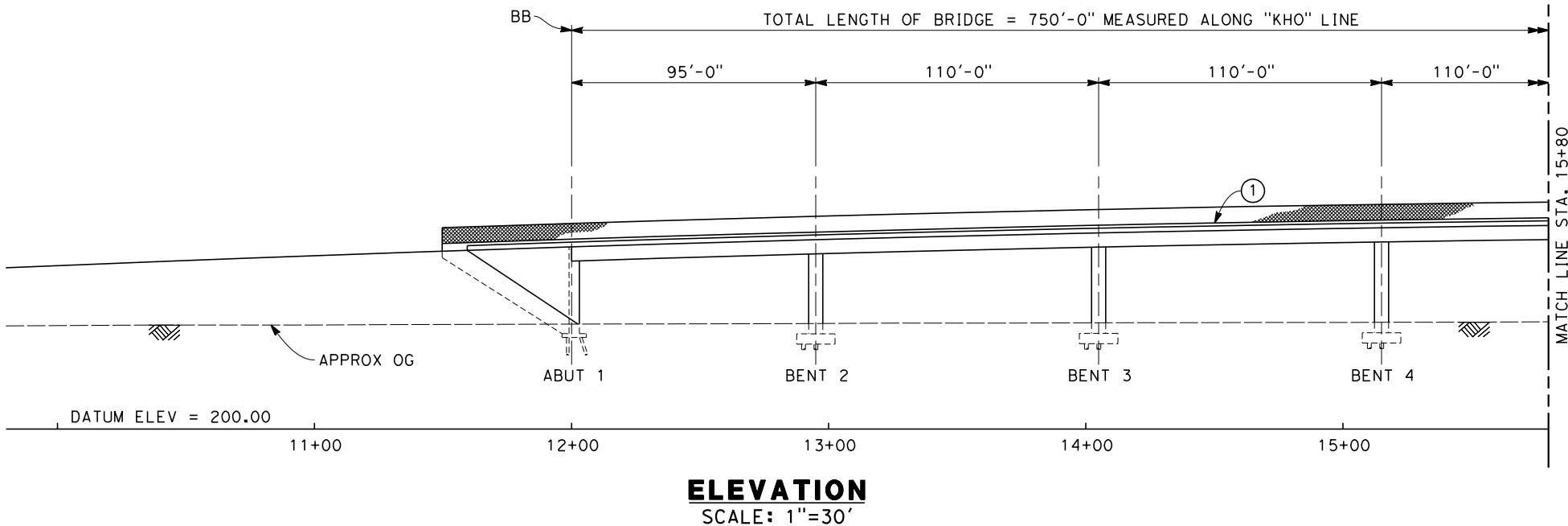
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
HANFORD ARMONA RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2143
SCALE
AS SHOWN
SHEET NO.
11 OF 14



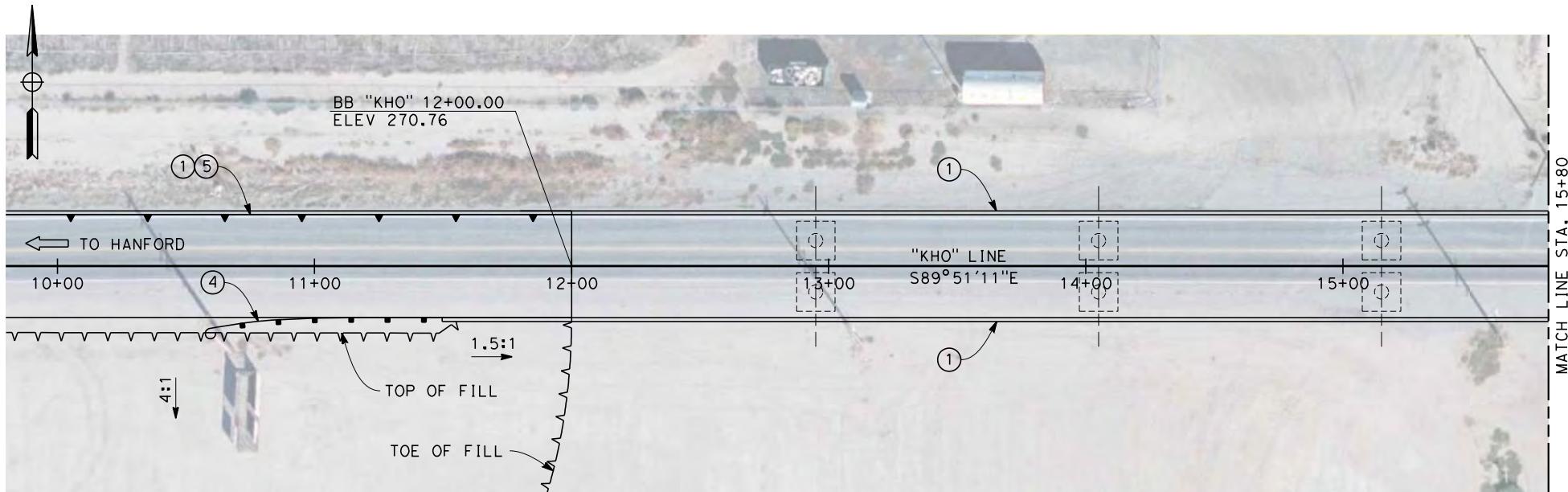
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN
SCALE: 1"=30'



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

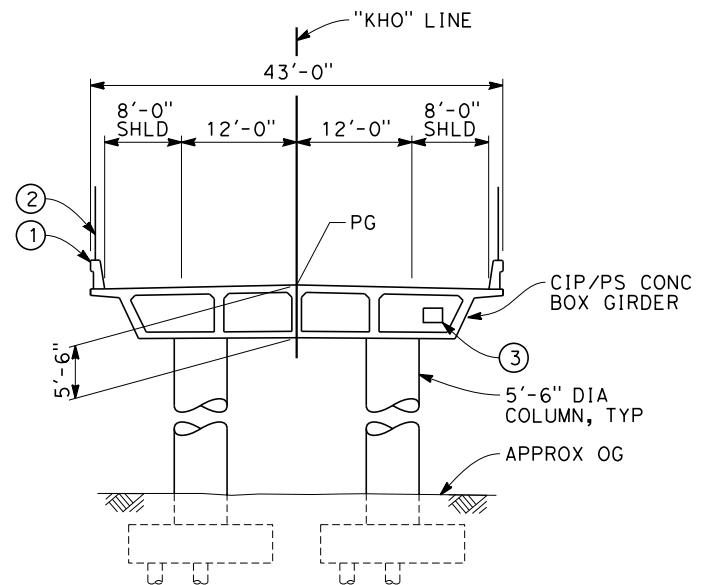
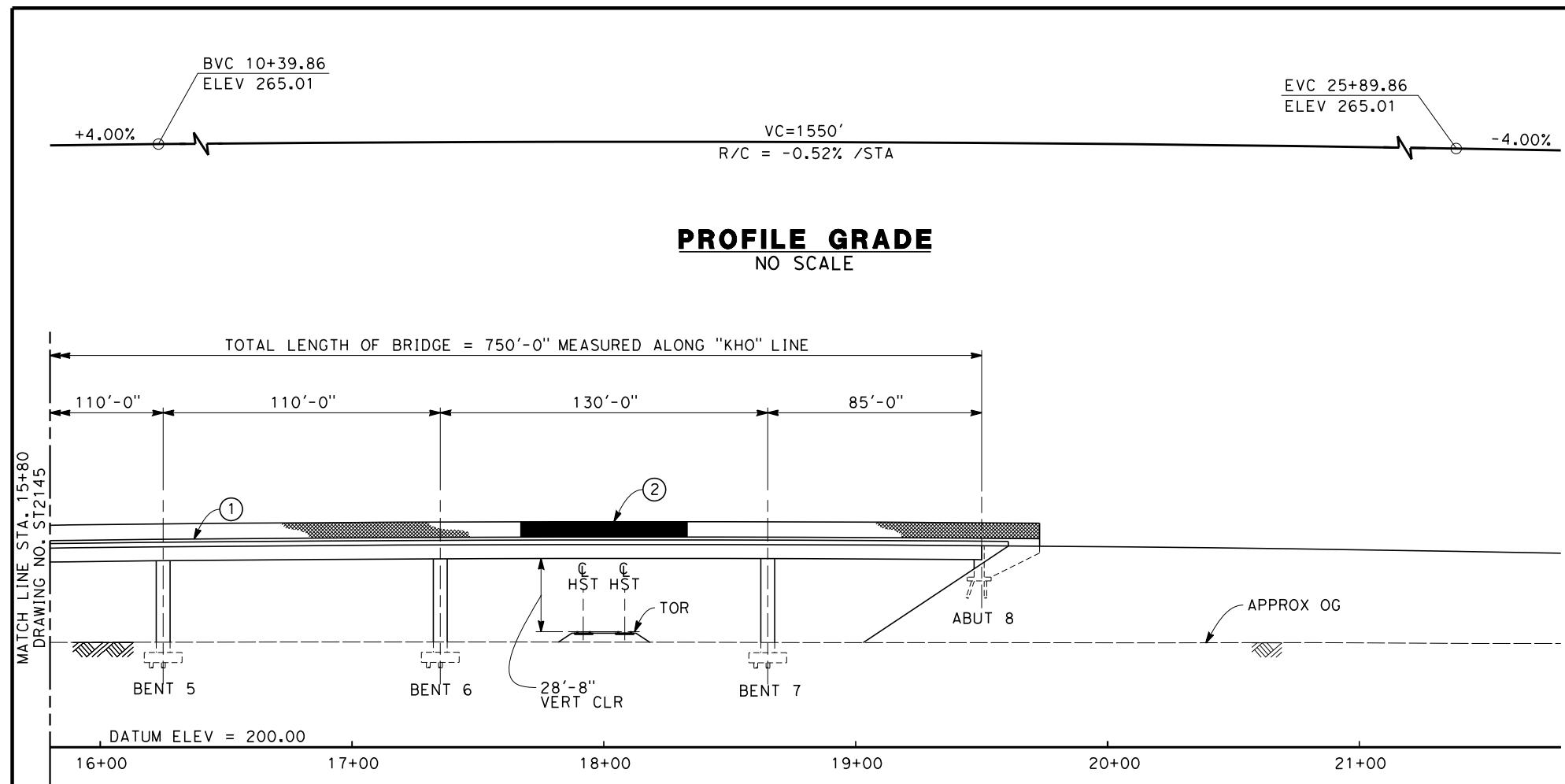
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

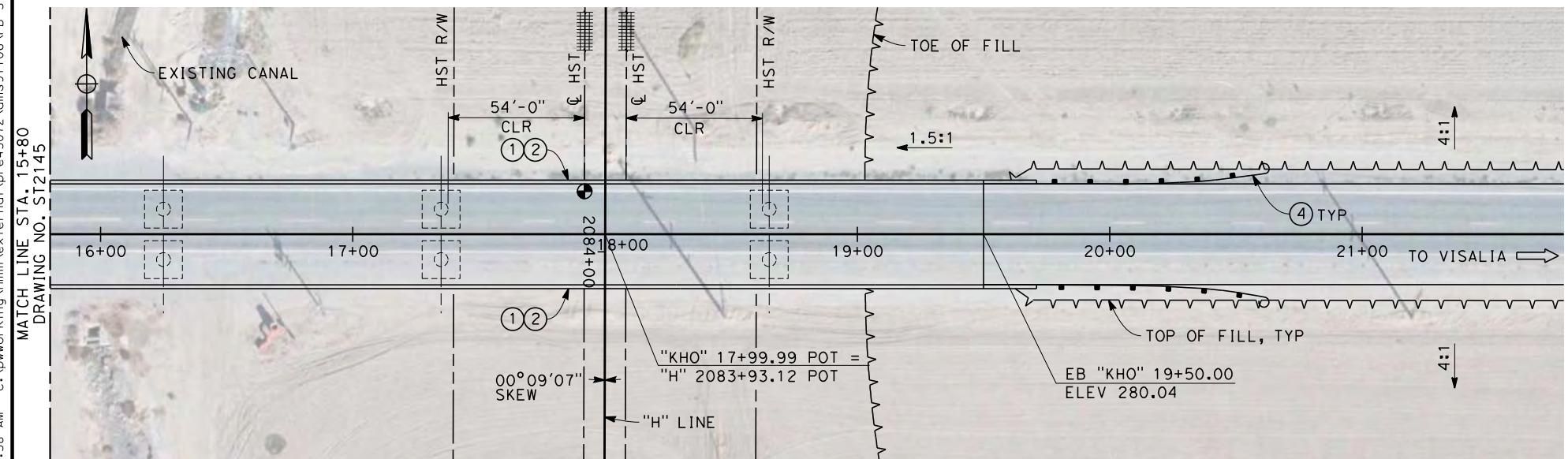


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2145
SCALE
AS SHOWN
SHEET NO.
12 OF 14



TYPICAL SECTION
SCALE: 1"=10'



PLAN

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

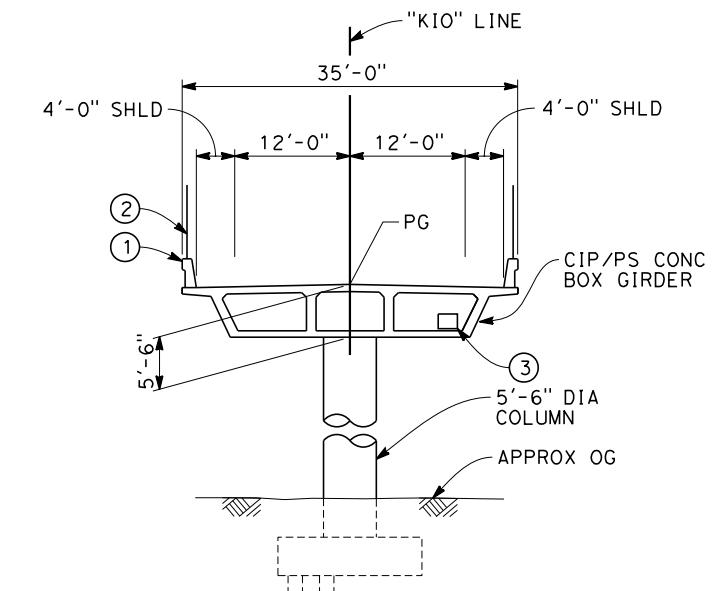
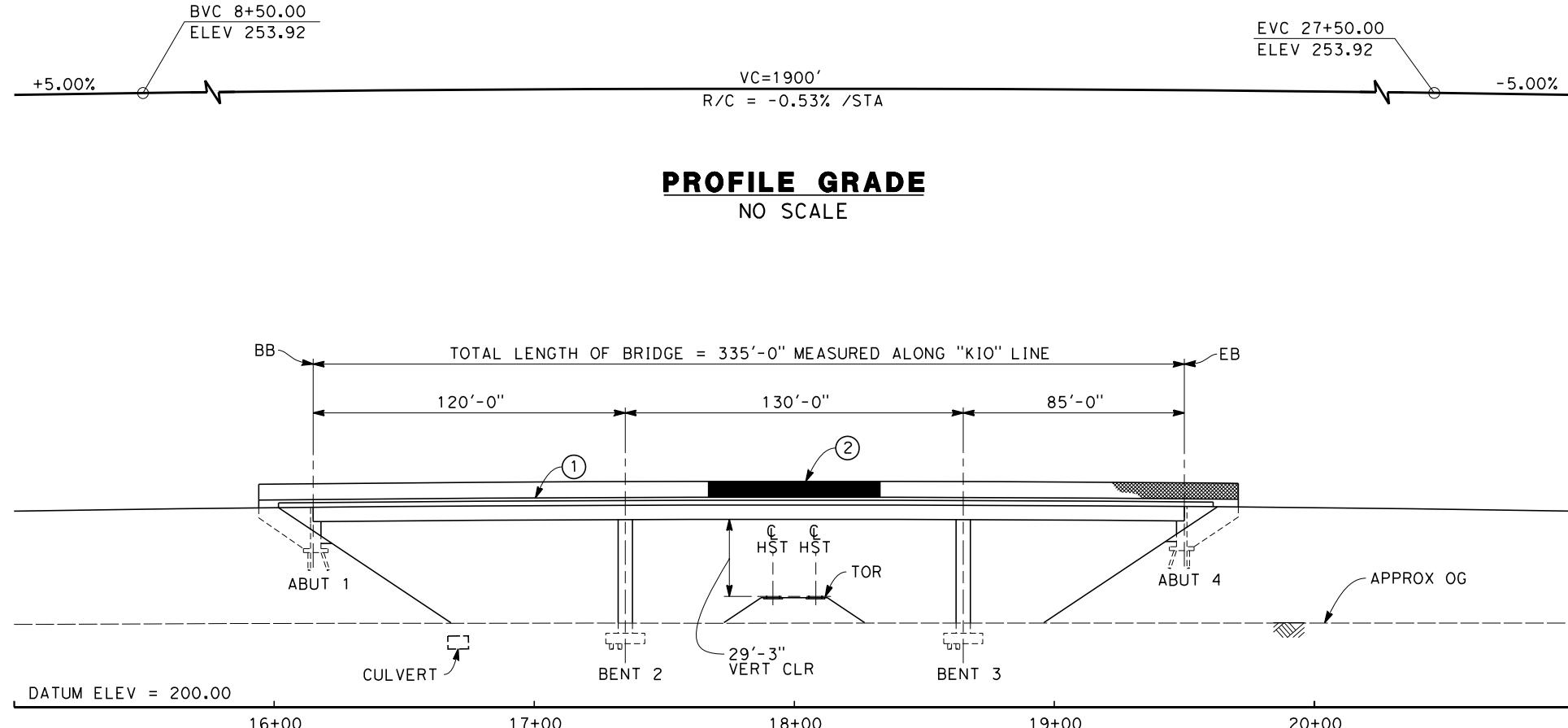
- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



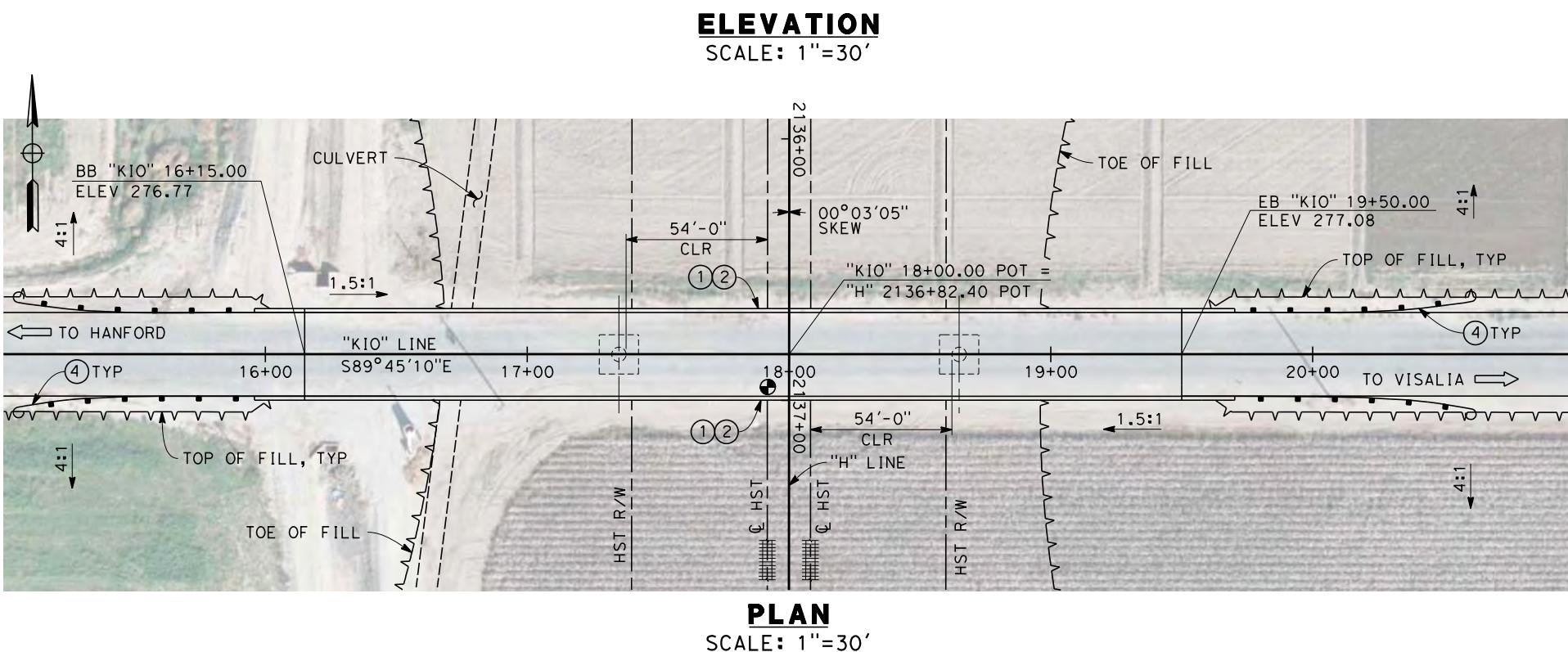
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2146
SCALE
AS SHOWN
SHEET NO.
13 OF 14



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



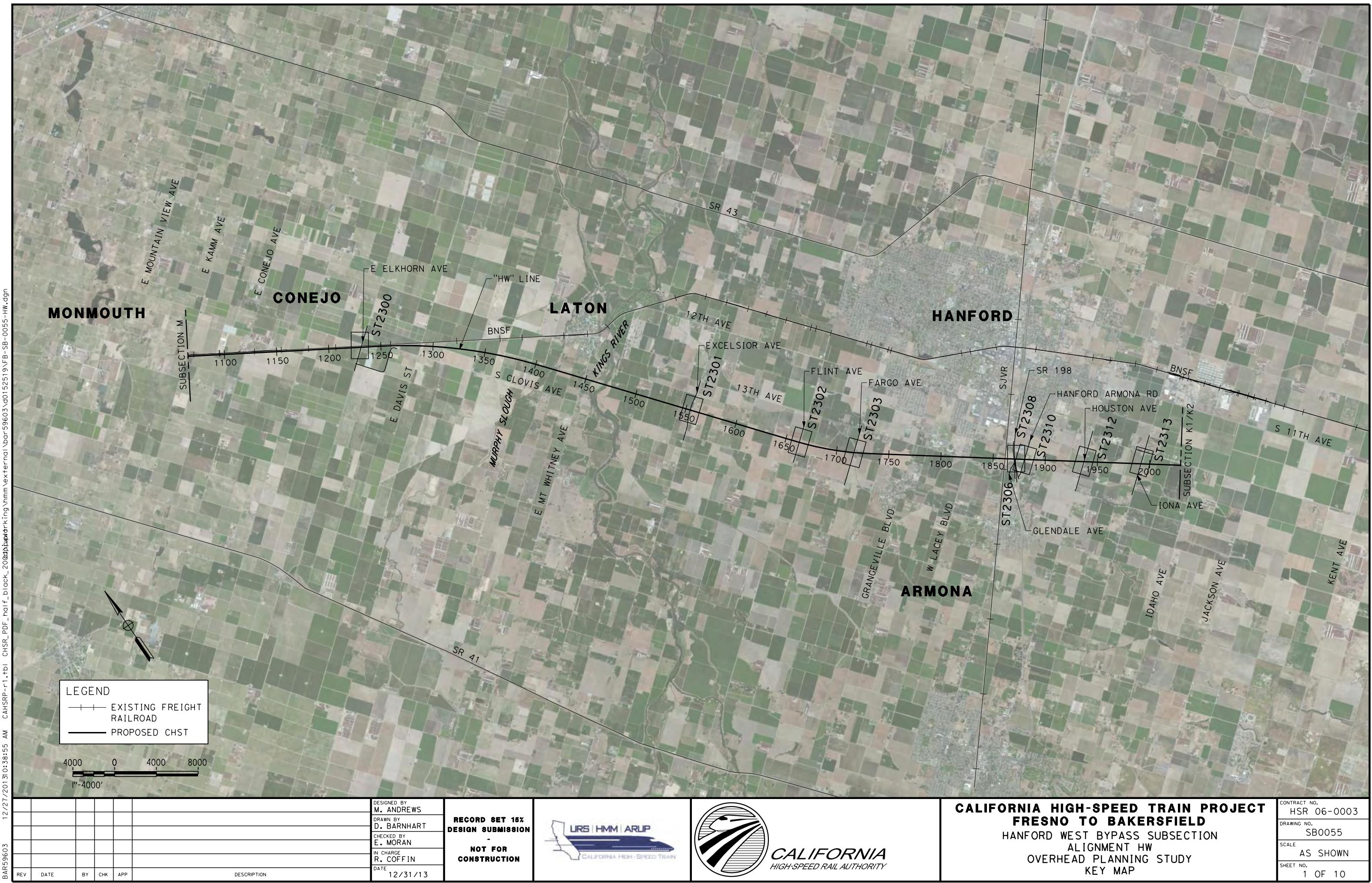
PRE45072

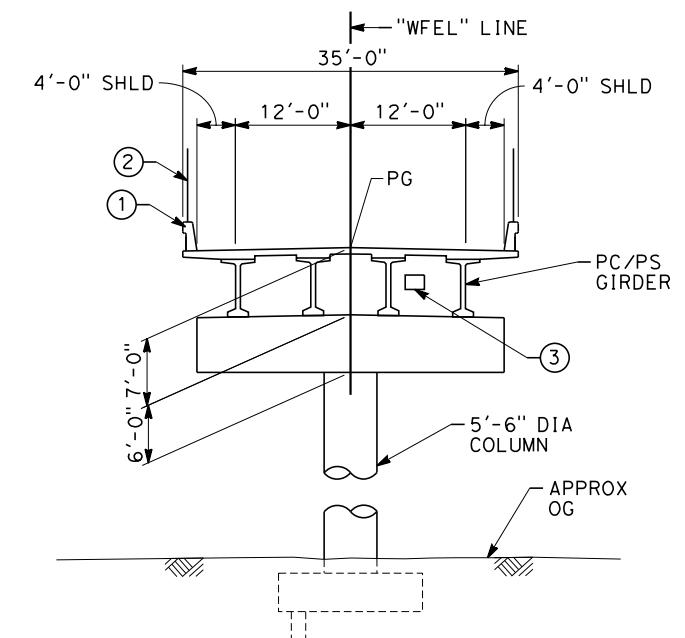
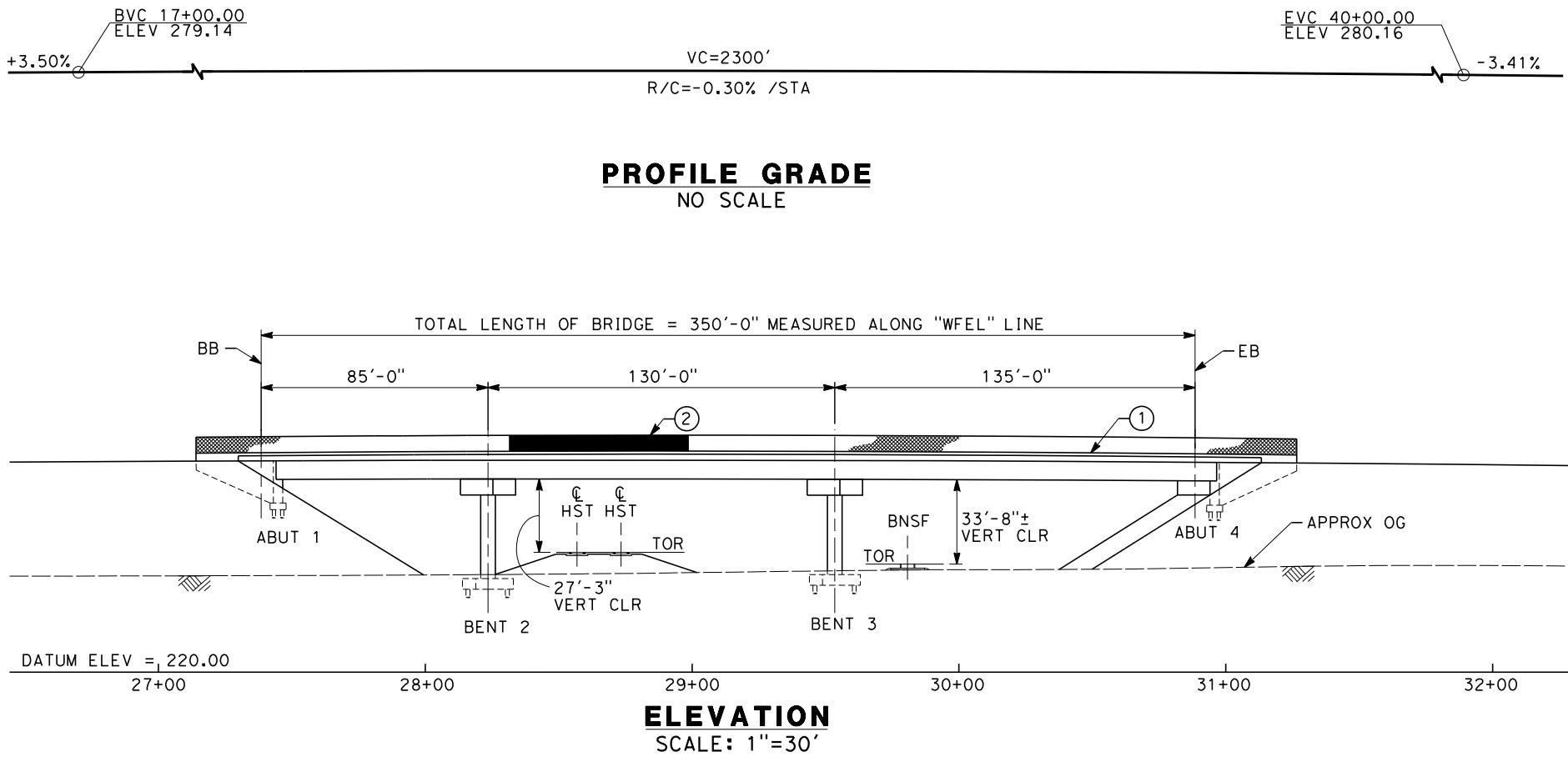
					DESIGNED BY B. LUSCOMBE	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION		
					DRAWN BY D. BARNHART				
					CHECKED BY M. ANDREWS				
					IN CHARGE R. COFFIN				
					DATE 12/31/13				
REV	DATE	BY	CHK	APP	DESCRIPTION				



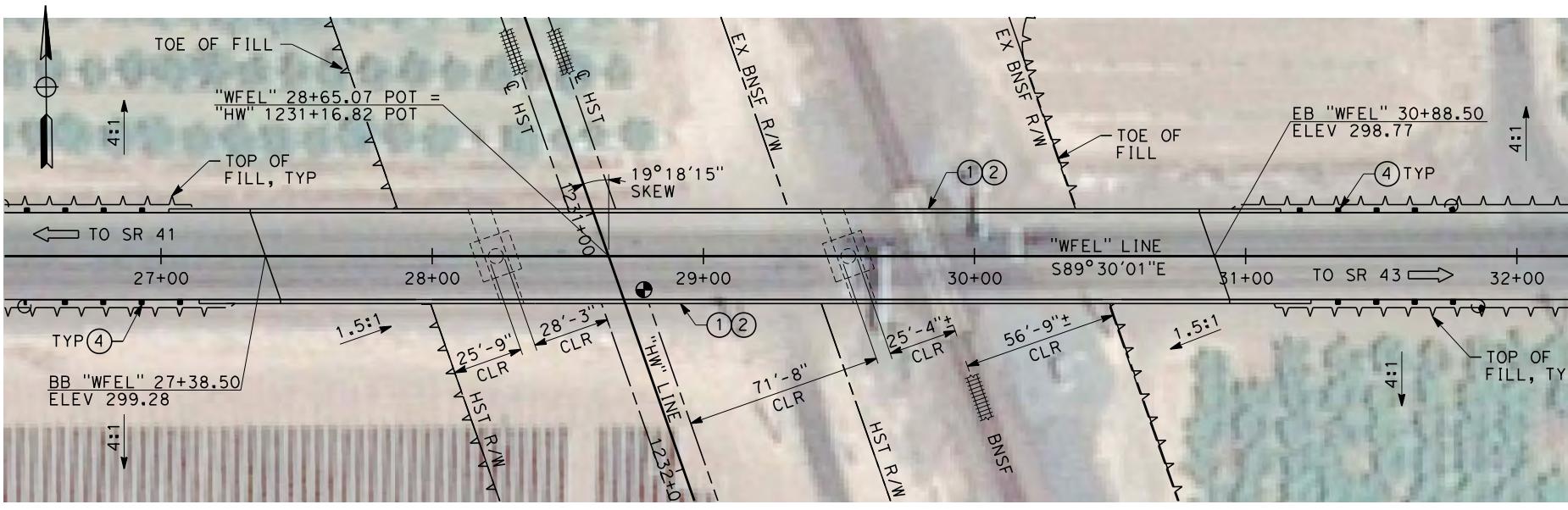
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
OVERHEAD PLANNING STUDY
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2147
SCALE
AS SHOWN
SHEET NO.
14 OF 14





TYPICAL SECTION
SCALE: 1"=10'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

AND52110 12/18/2

DESIGNED
M. AN
DRAWN BY
P. BA
CHECKED
E. MO
IN CHARGE
R. CO
DATE
12

S

RECORD SET 15%

DESIGN SUBMISSION

-

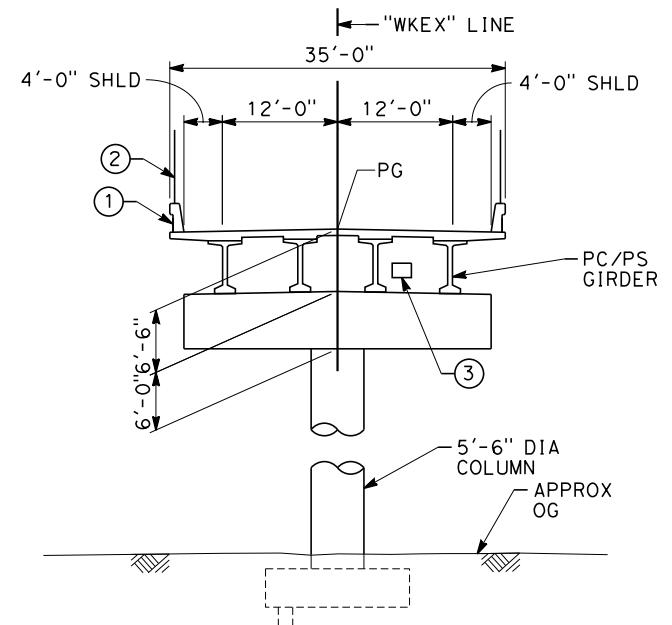
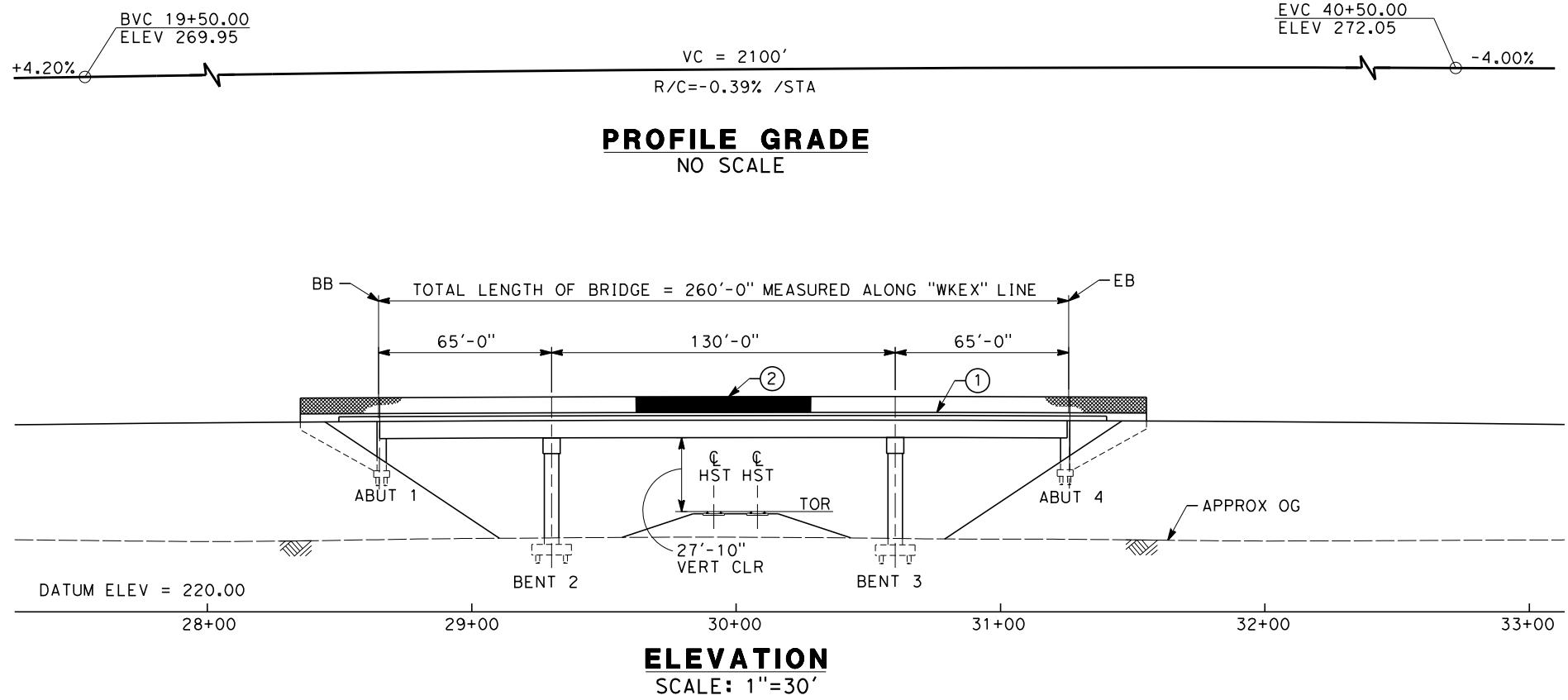
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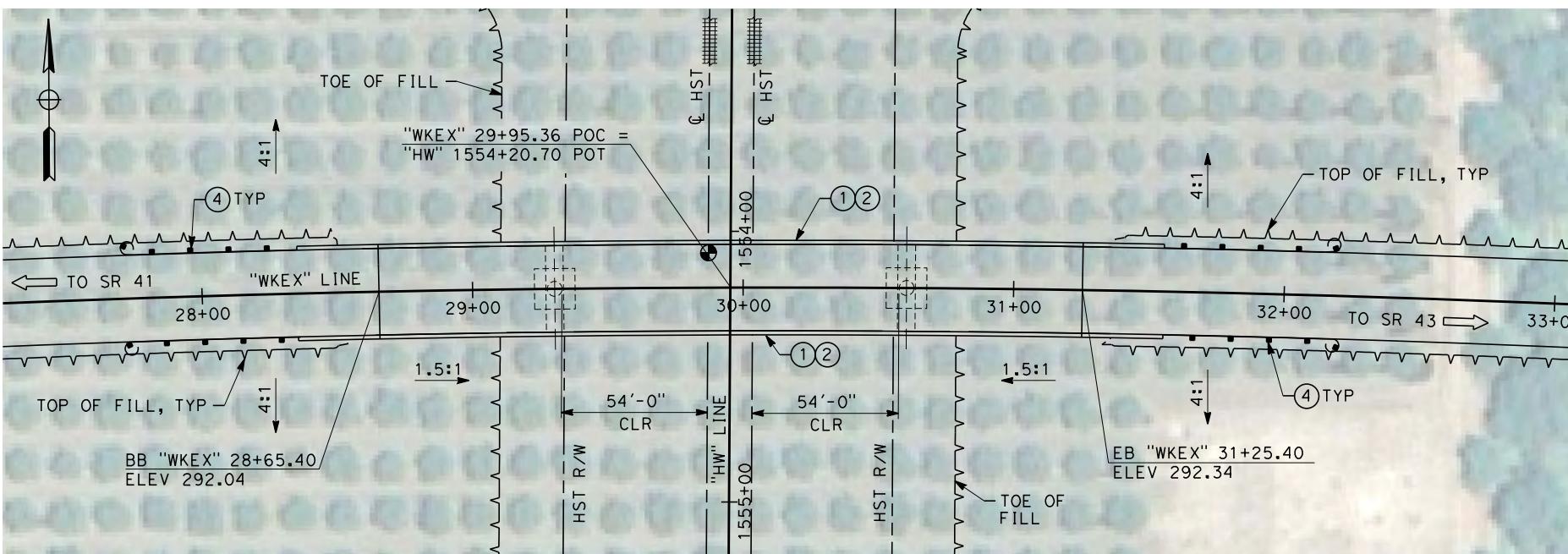
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
E ELKHORN AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2300
SCALE
AS SHOWN
SHEET NO.
2 OF 10



TYPICAL SECTION
SCALE: 1"=10'



NOTES:
 1. ALL PILES NOT SHOWN
 2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

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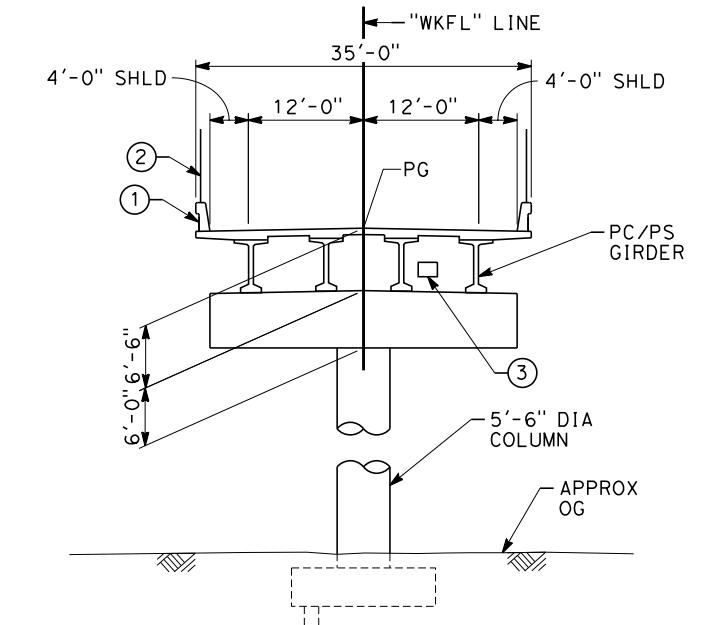
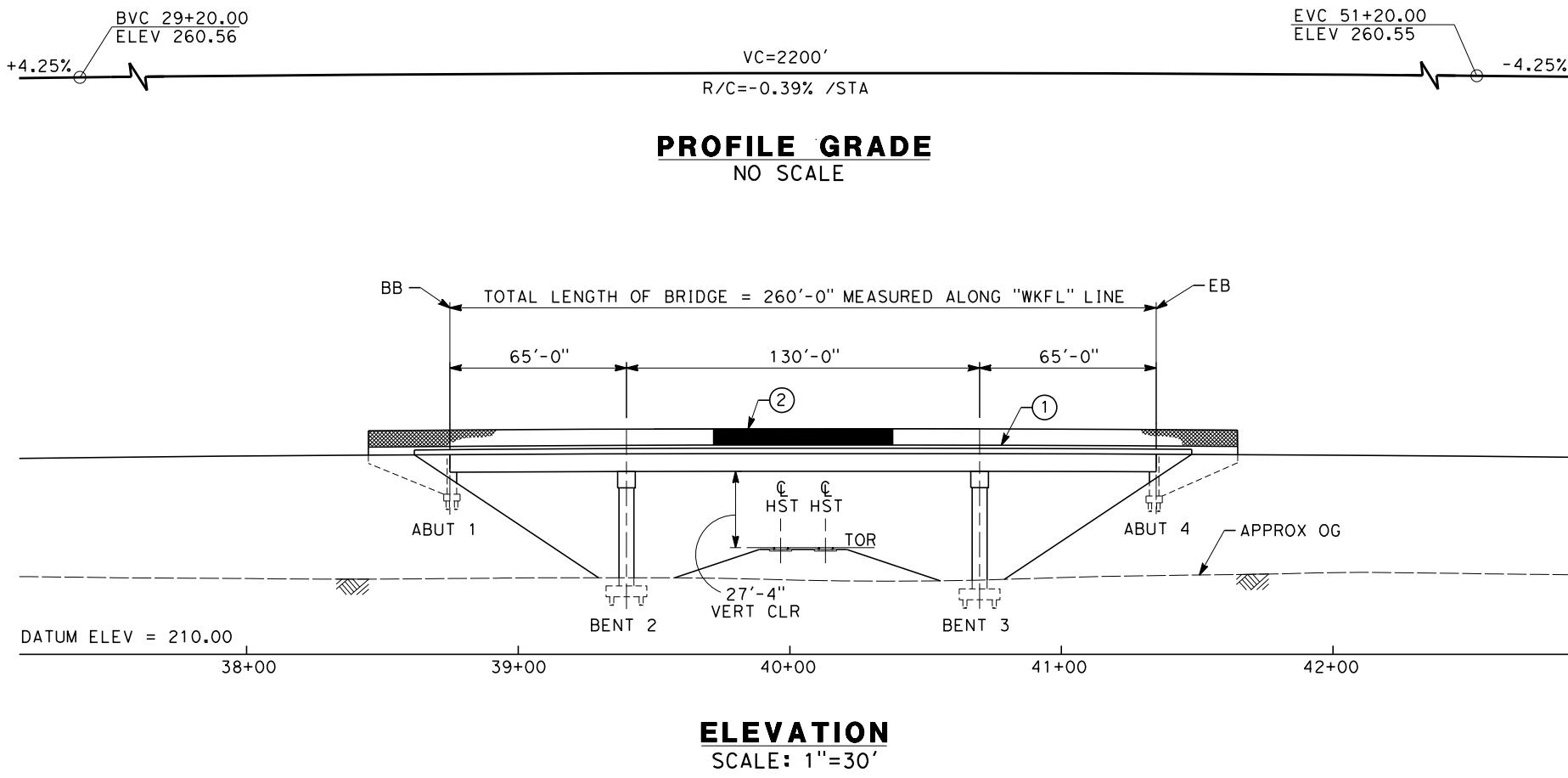
DESIGNED BY
M. ANDREWS
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

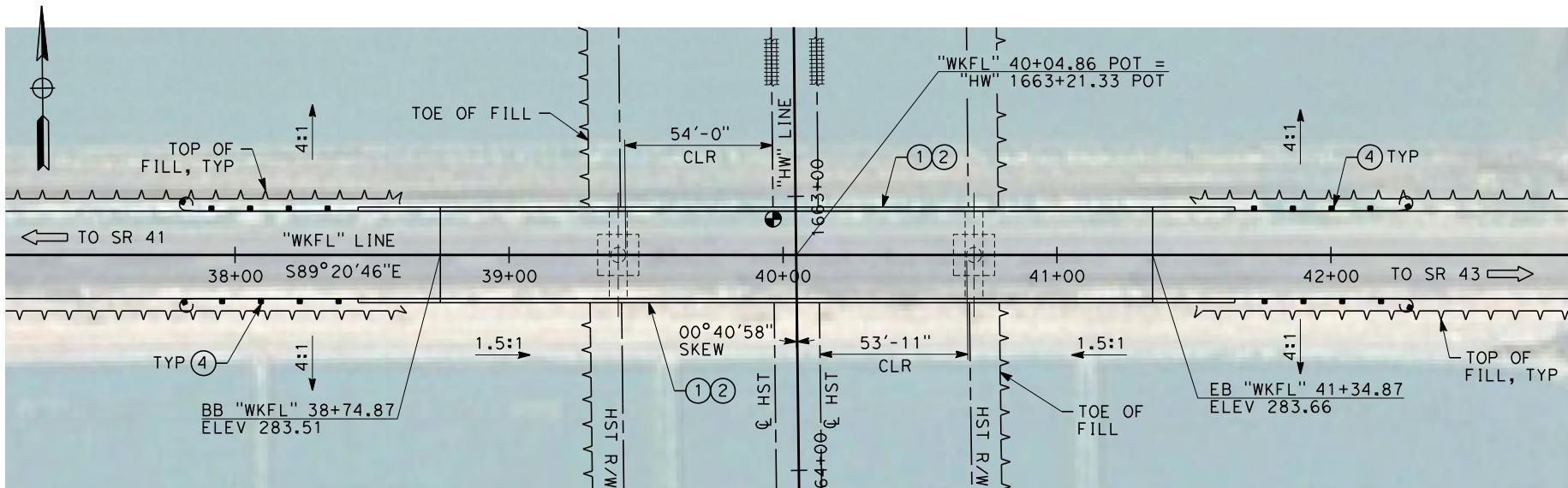


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
EXCELSIOR AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2301
SCALE
AS SHOWN
SHEET NO.
3 OF 10



TYPICAL SECTION



PLAN

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



AND52110 12/18/1

100

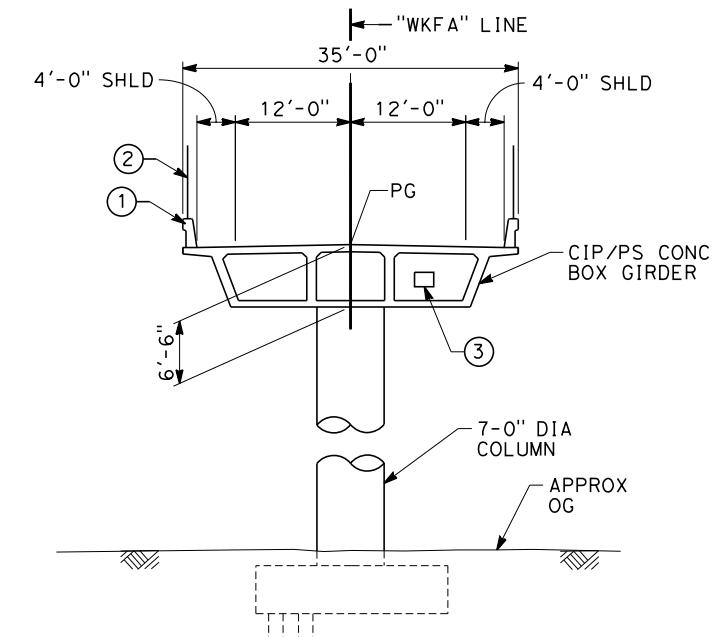
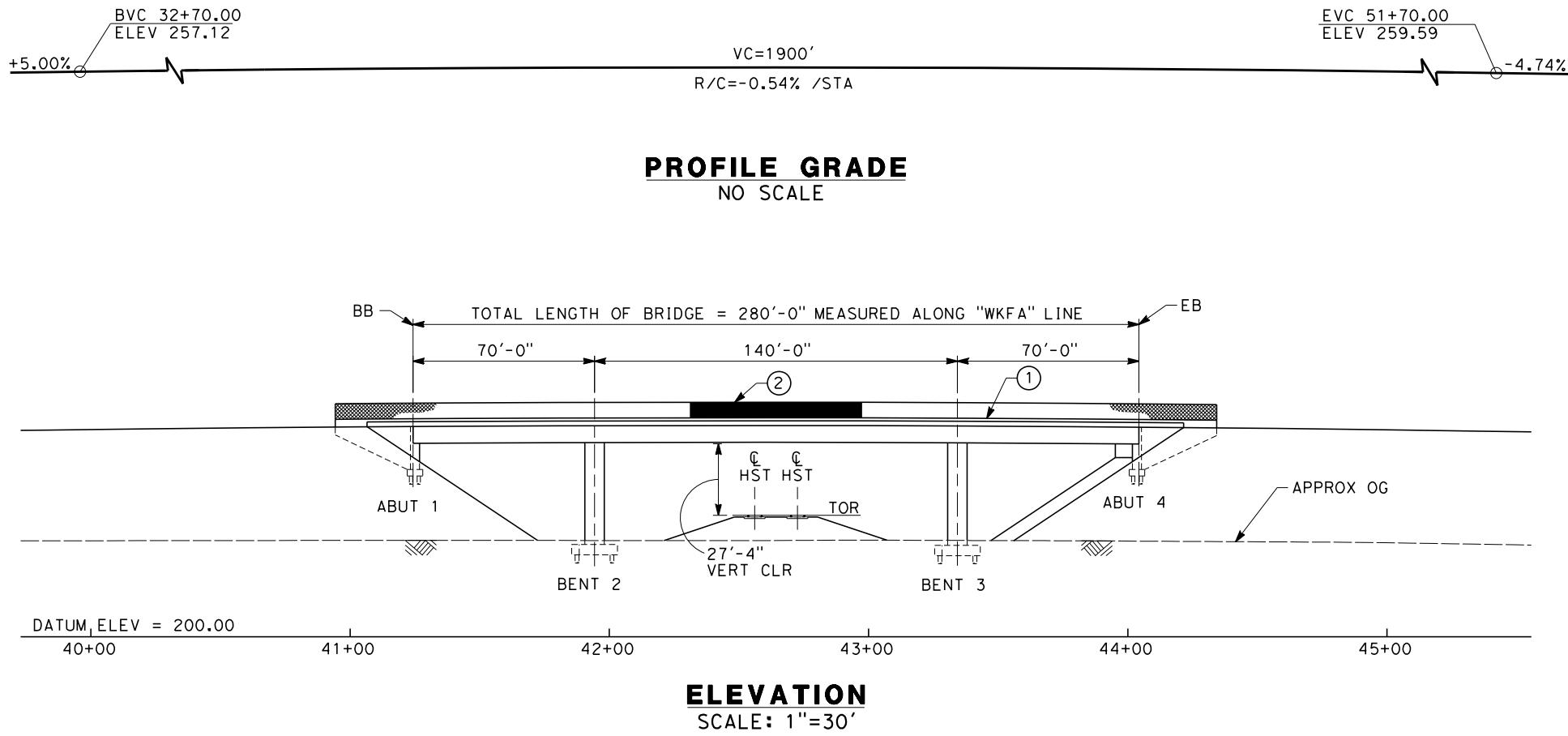
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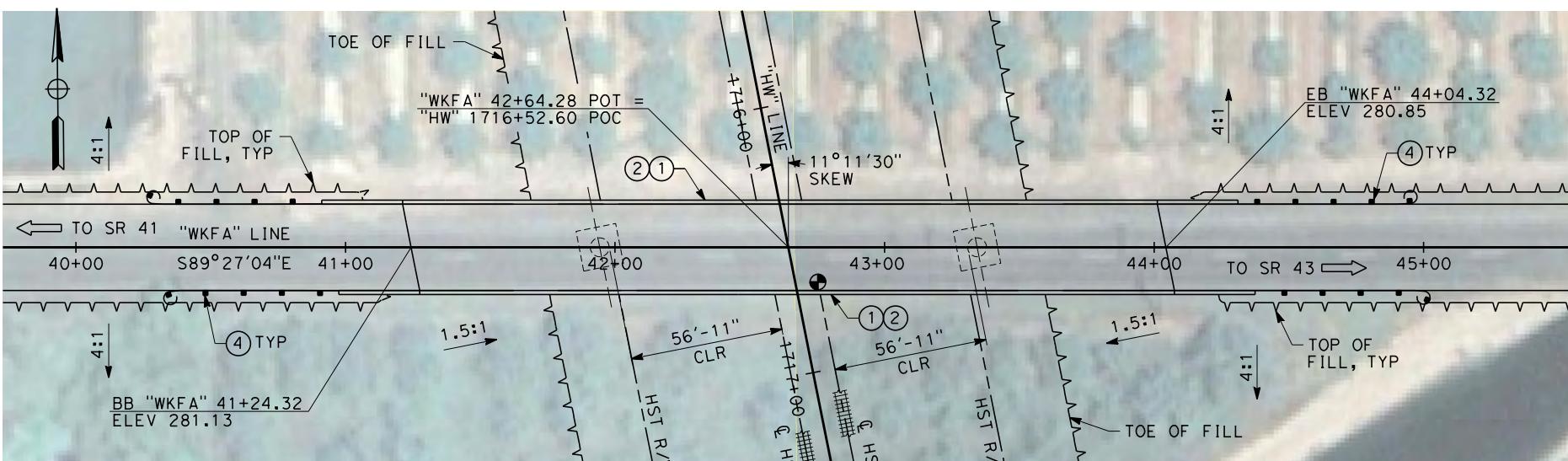
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
FLINT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2302
CALE
AS SHOWN
HEET NO.
4 OF 10



TYPICAL SECTION
SCALE: 1"=10'



PLAN
SCALE: 1"=30'

NOTES:

- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
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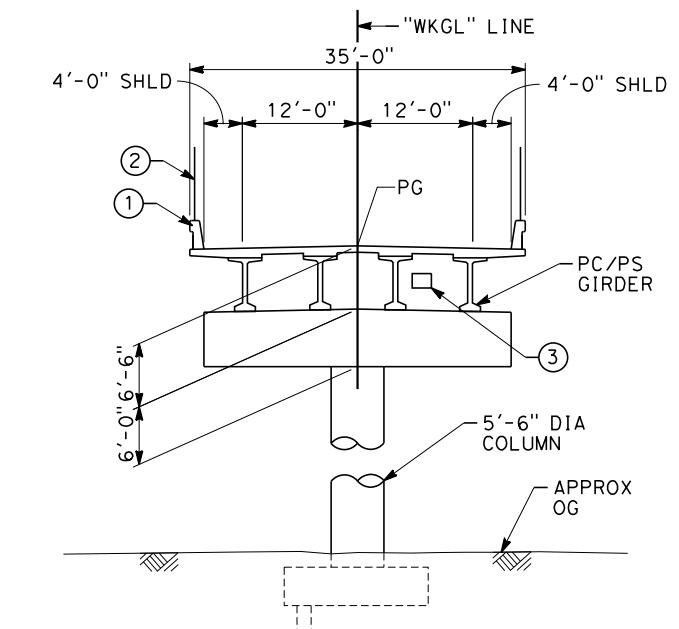
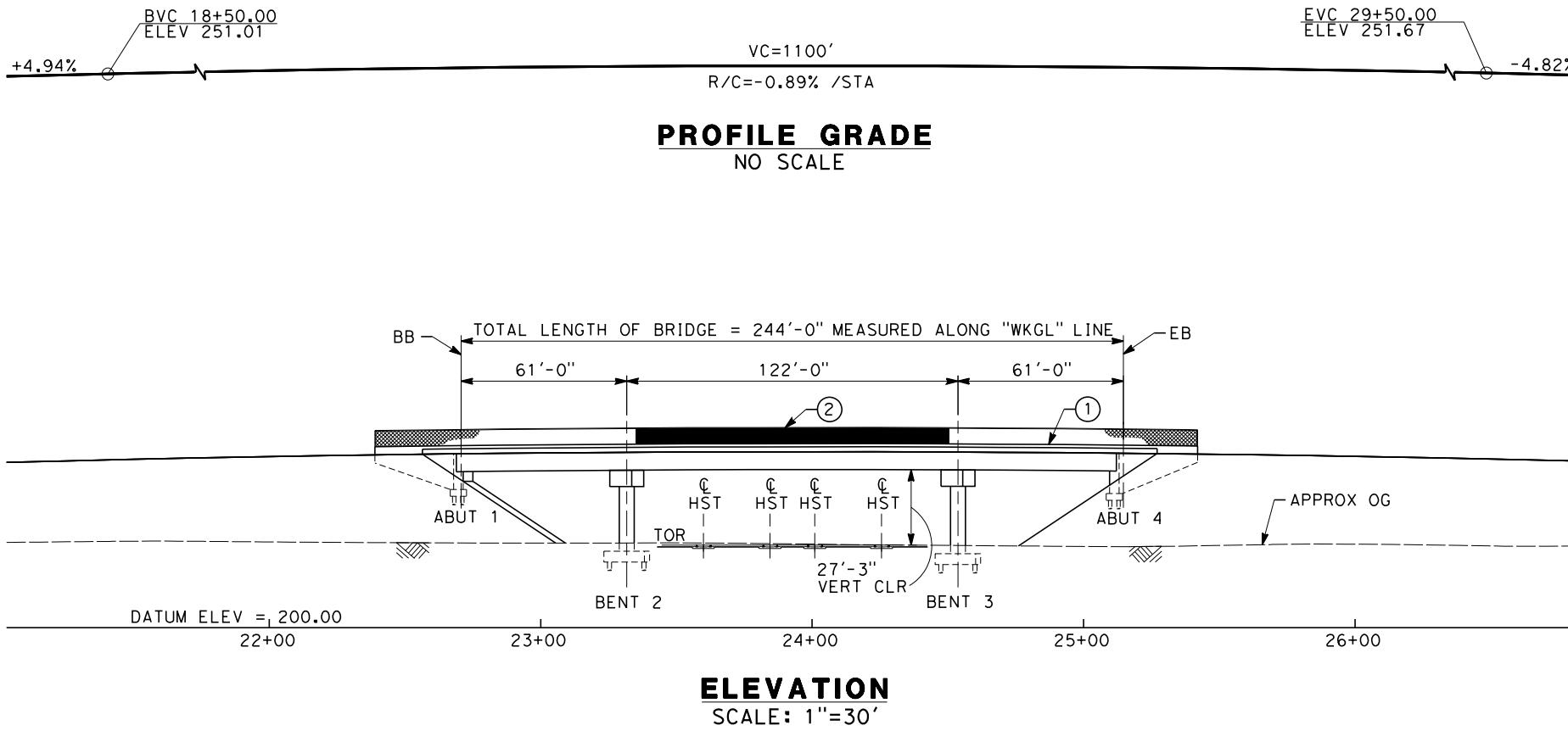
DESIGNED BY
M. ANDREWS
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



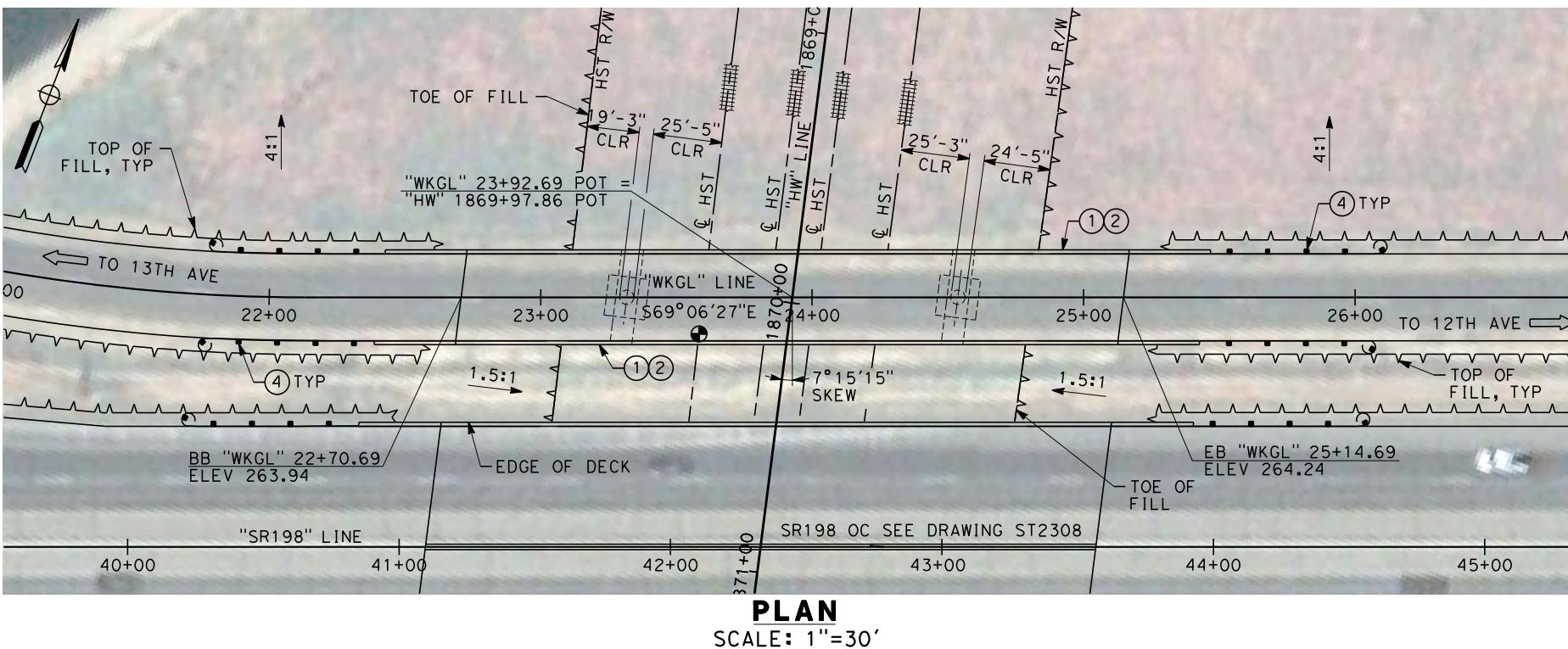
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
FARGO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2303
SCALE
AS SHOWN
SHEET NO.
5 OF 10



TYPICAL SECTION

SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

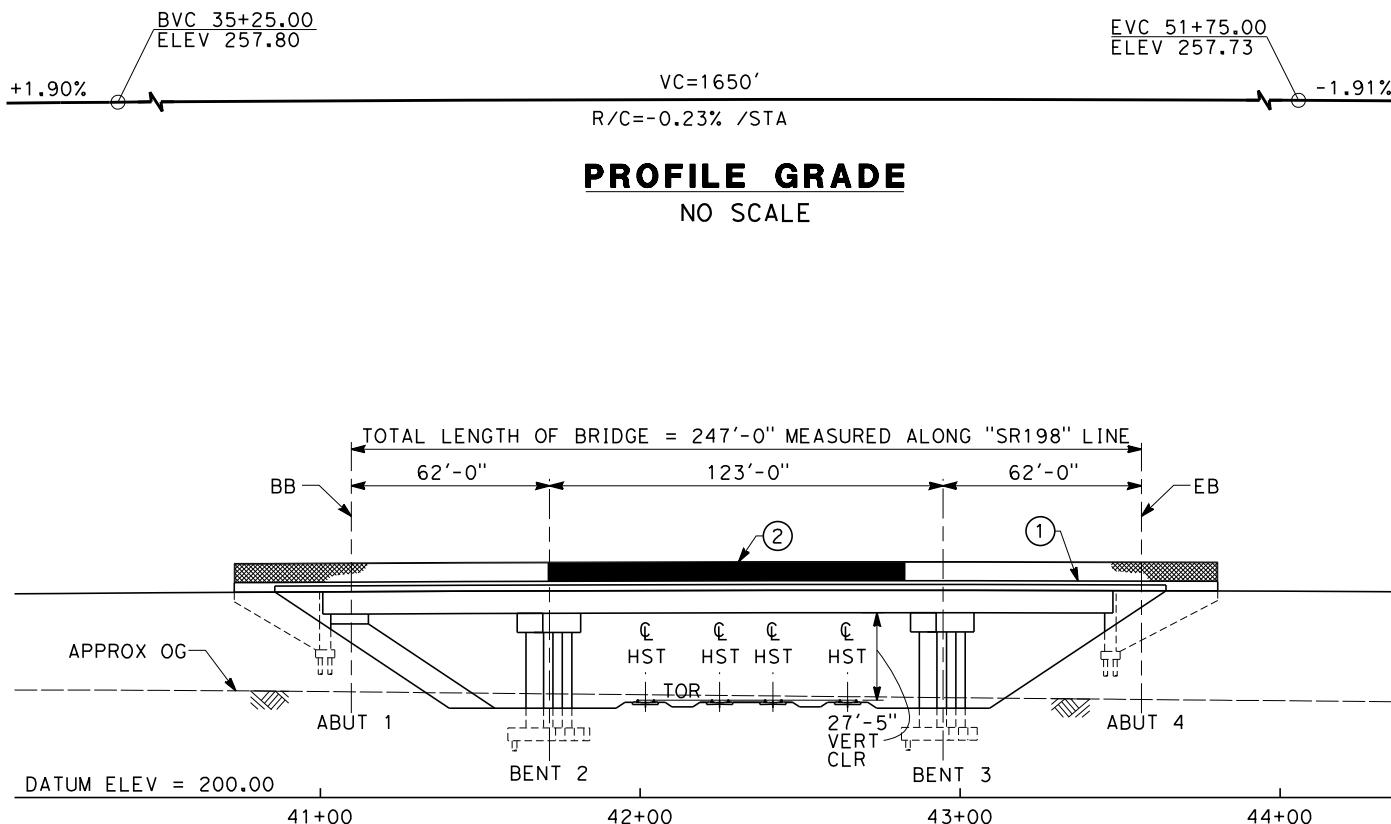
DESIGNED BY
M. ANDREWS
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

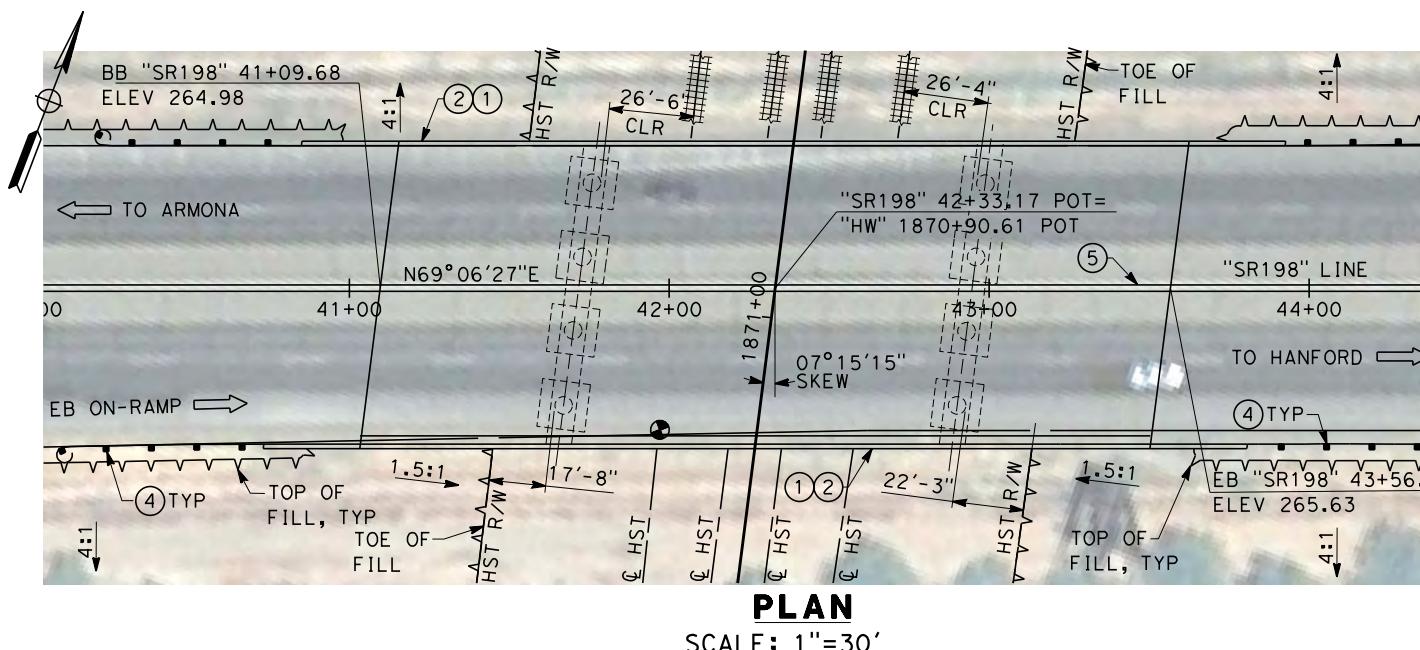


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
GLENDALE AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2306
SCALE
AS SHOWN
SHEET NO.
6 OF 10

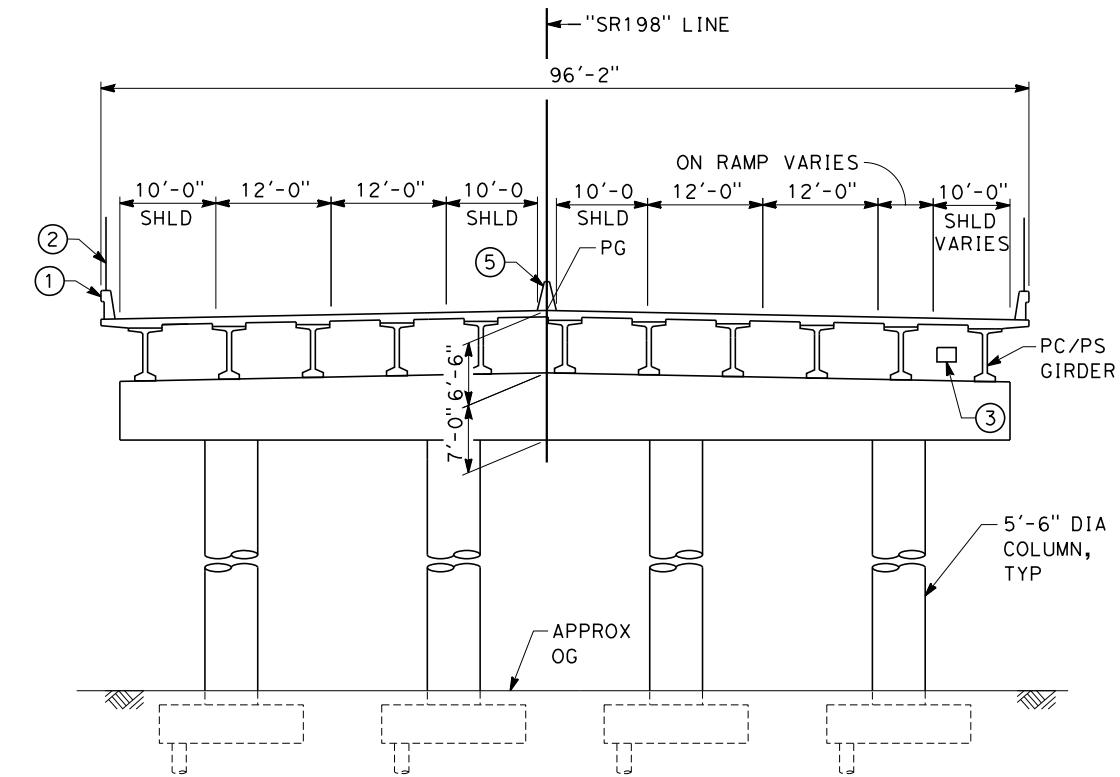


ELEVATION
SCALE: 1"=30'



SCALE: 1"=30'

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TYPICAL SECTION

SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ CONCRETE BARRIER (TYPE 60)



	DESIGNED
	M. AN
	DRAWN BY
	P. BA
	CHECKED
	E. MO
	IN CHARGE
	R. CO
	DATE
	12

**RECORD SET 15%
DESIGN SUBMISSION**

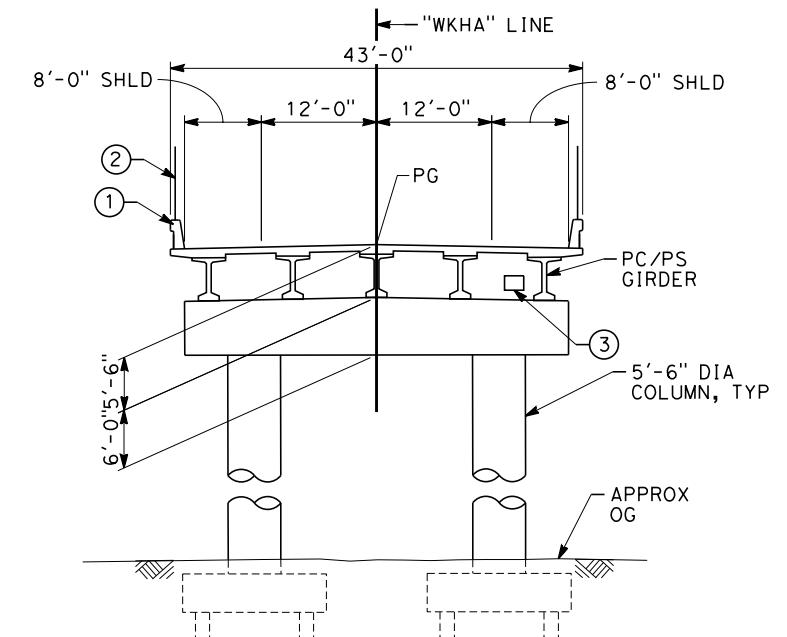
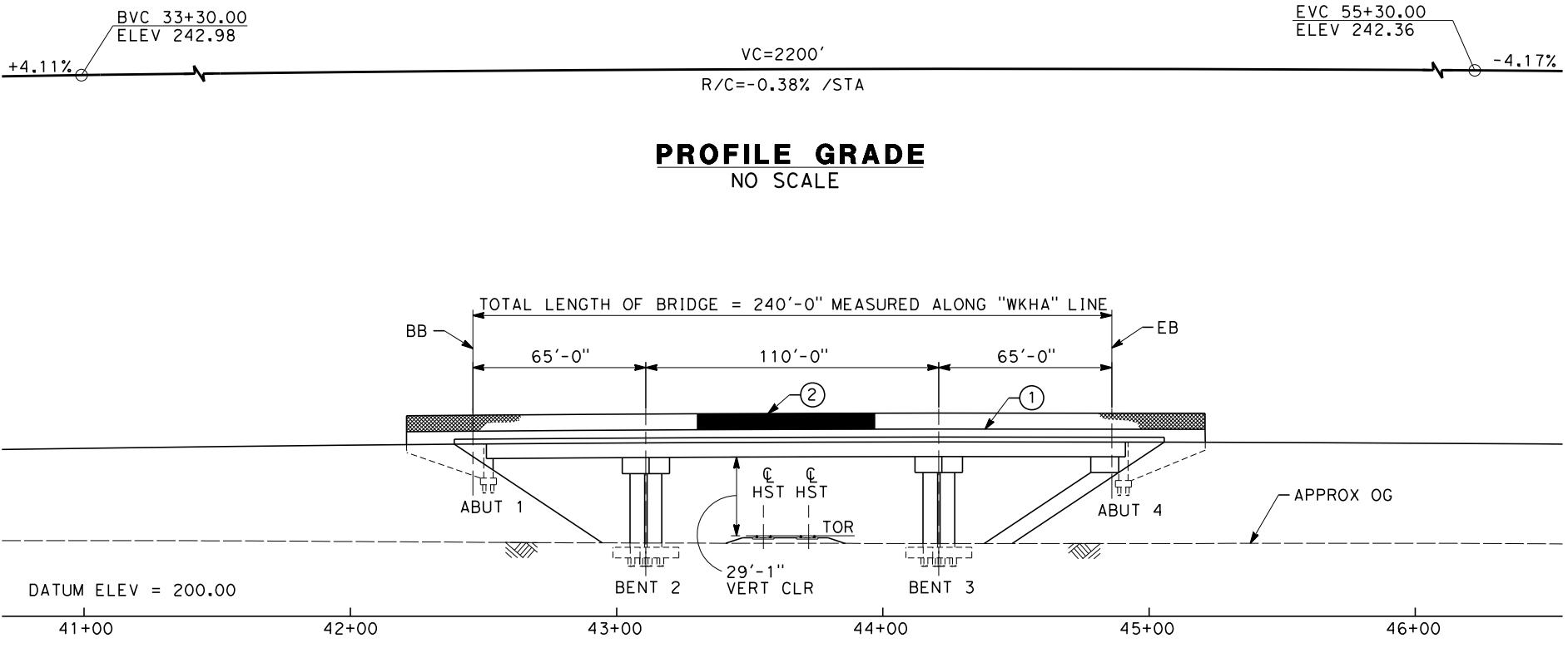
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CONSTRUCTION**



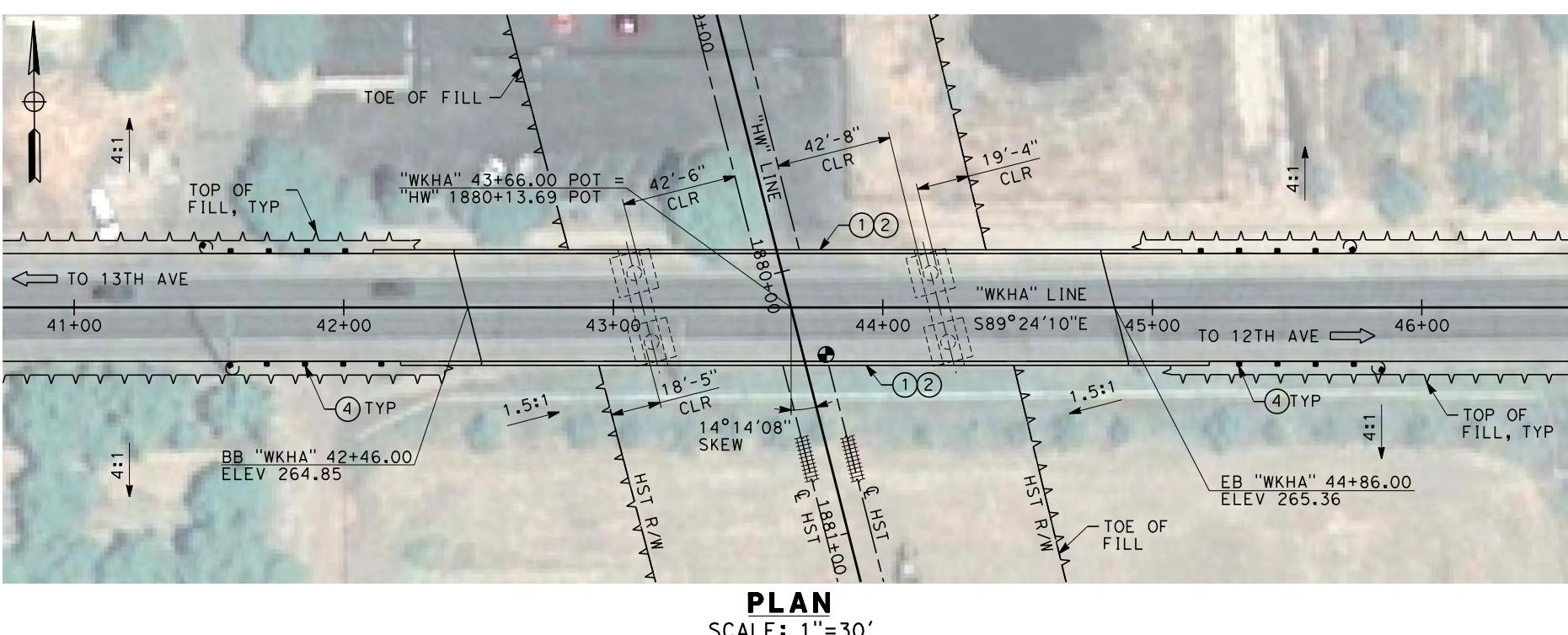
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
STATE ROUTE 198

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2308
SCALE
AS SHOWN
SHEET NO.
7 OF 10



TYPICAL SECTION
SCALE: 1"=10'



10 0 10 20
30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

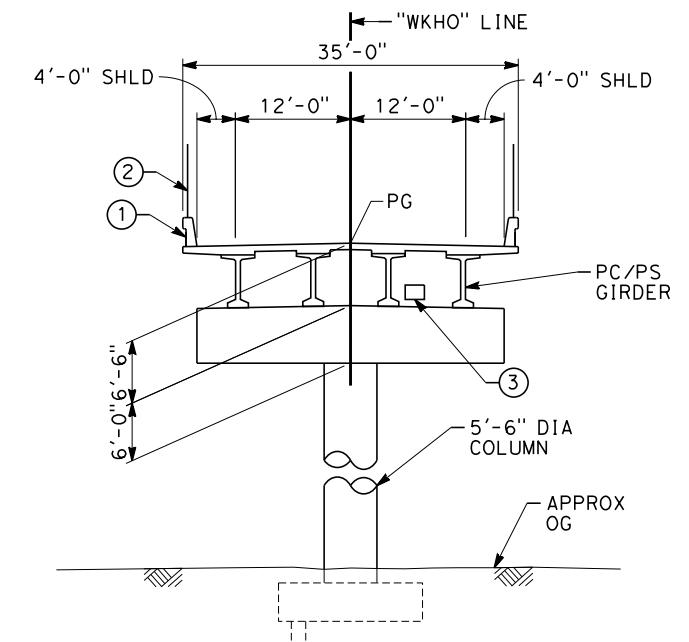
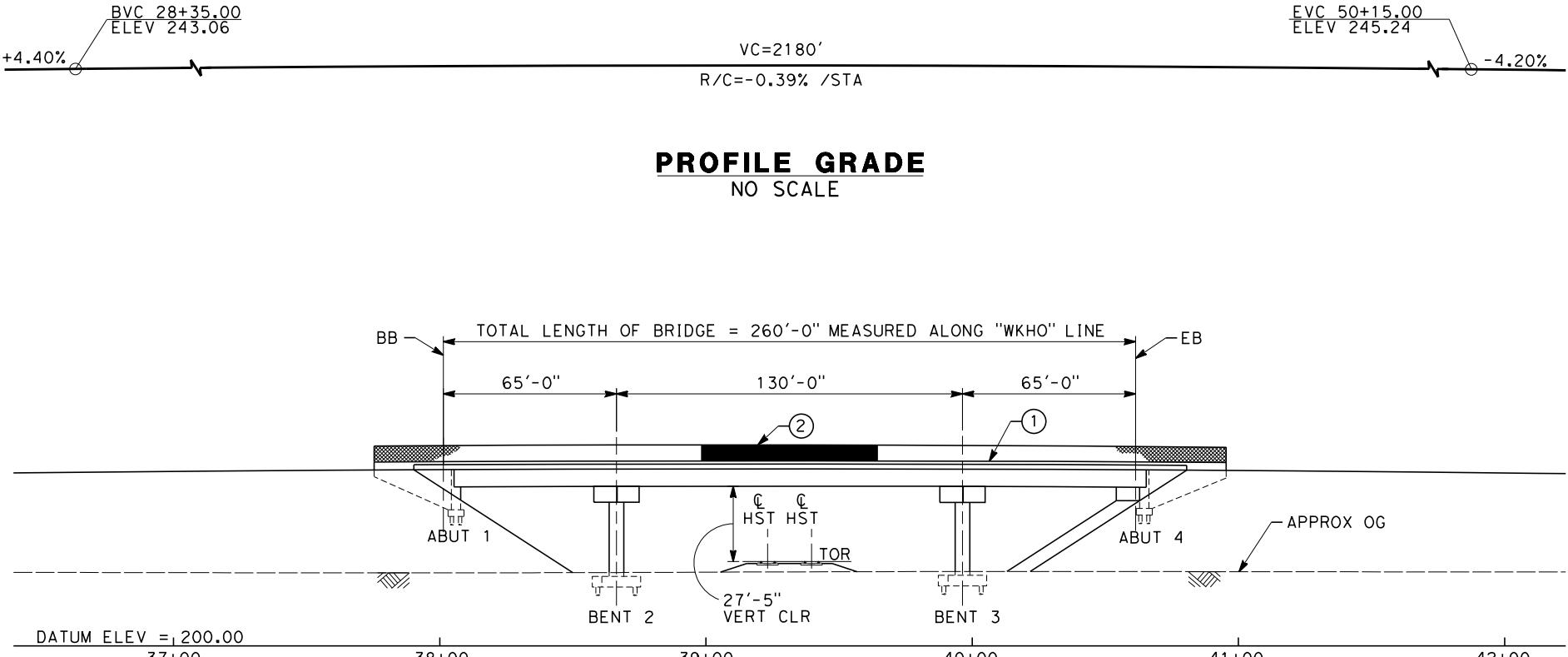
DESIGNED BY
M. ANDREWS
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

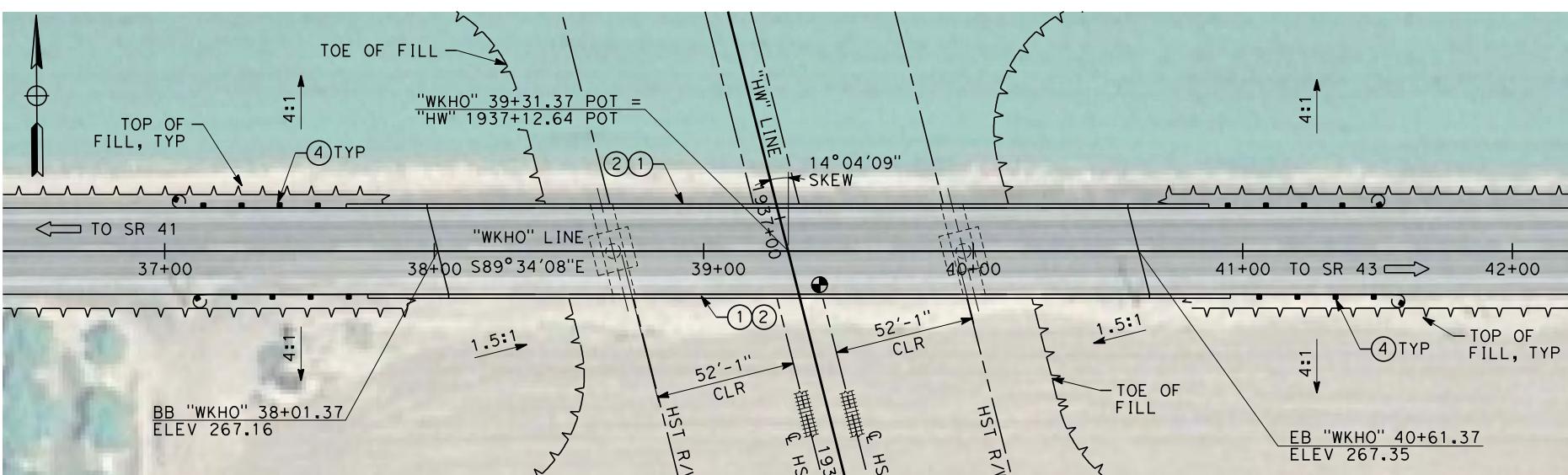


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
HANFORD ARMONA RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2310
SCALE
AS SHOWN
SHEET NO.
8 OF 10



TYPICAL SECTION
SCALE: 1"=10'



PLAN
SCALE: 1"=30'

NOTES:
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



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REV	DATE	BY	CHK APP

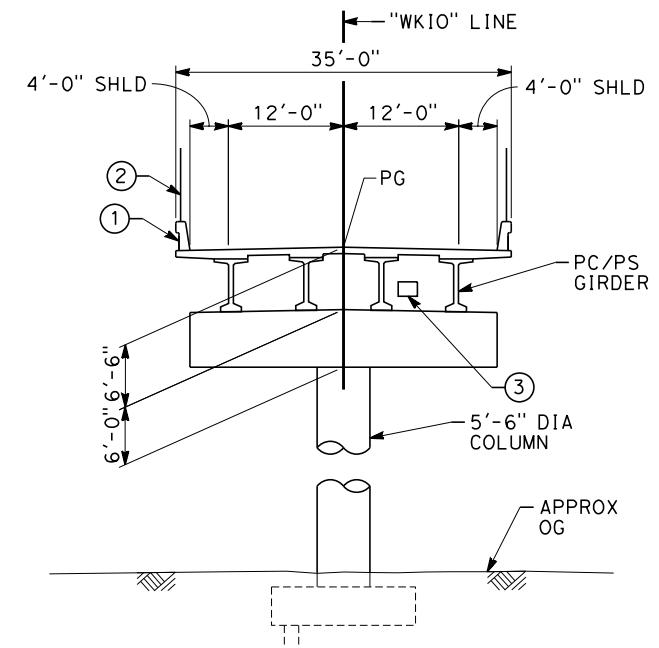
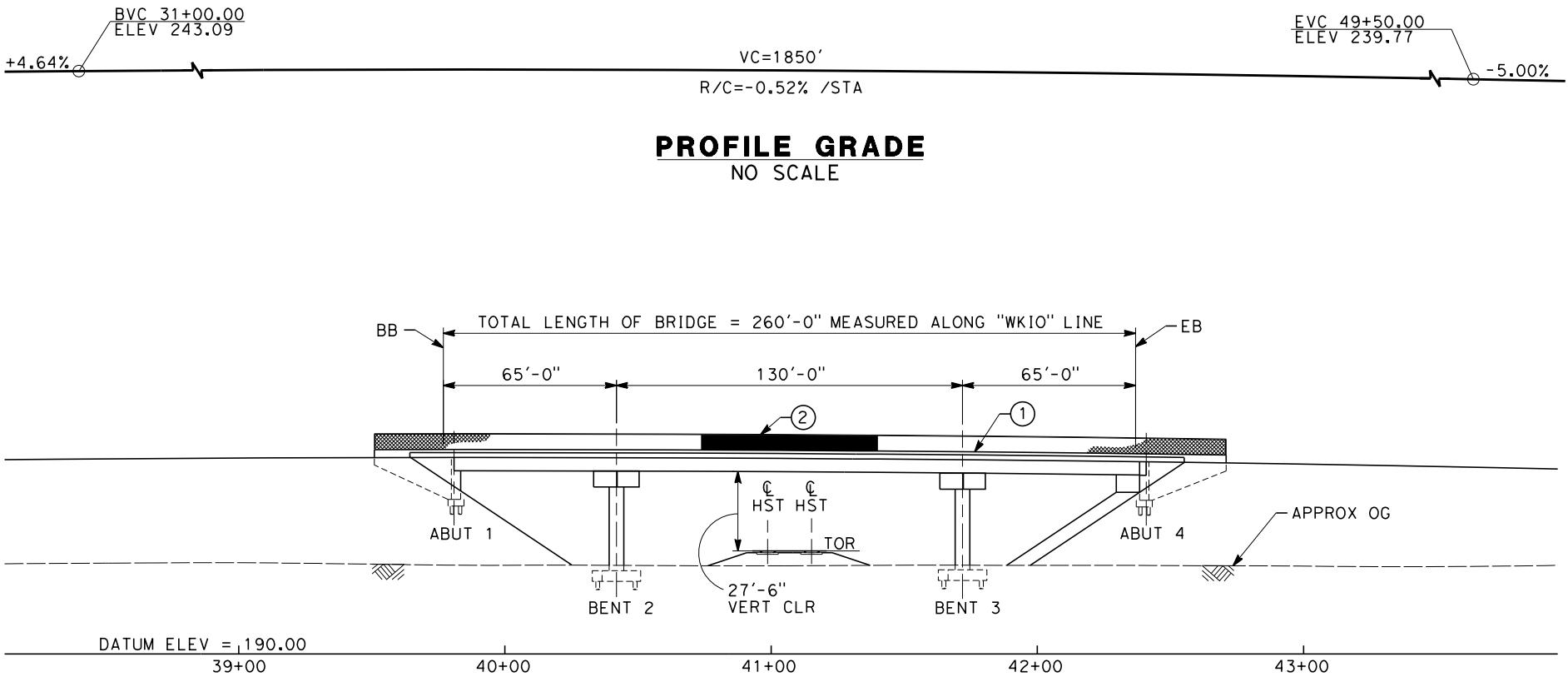
DESIGNED BY
M. ANDREWS
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
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-
NOT FOR
CONSTRUCTION

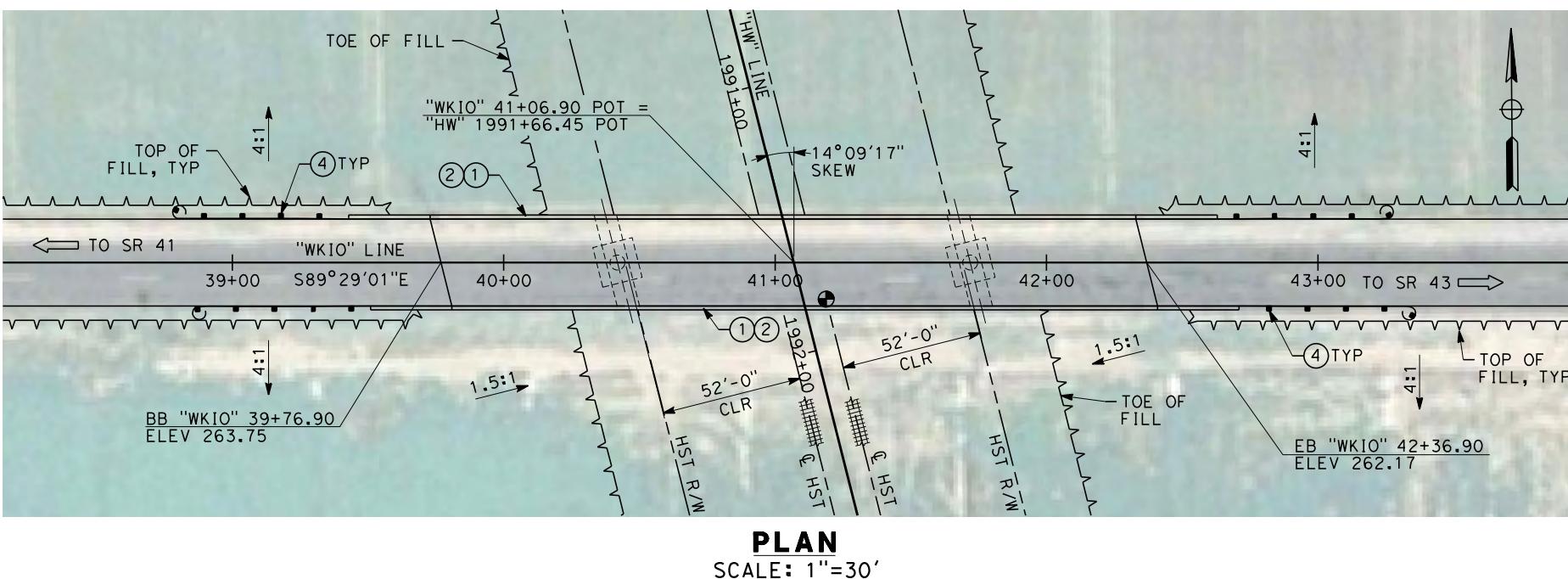


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2312
SCALE
AS SHOWN
SHEET NO.
9 OF 10



TYPICAL SECTION
SCALE: 1"=10'



NOTES:
1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY
M. ANDREWS
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW
OVERHEAD PLANNING STUDY
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2313
SCALE
AS SHOWN
SHEET NO.
10 OF 10



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REV DATE BY CHK APP DESCRIPTION

12/31/13

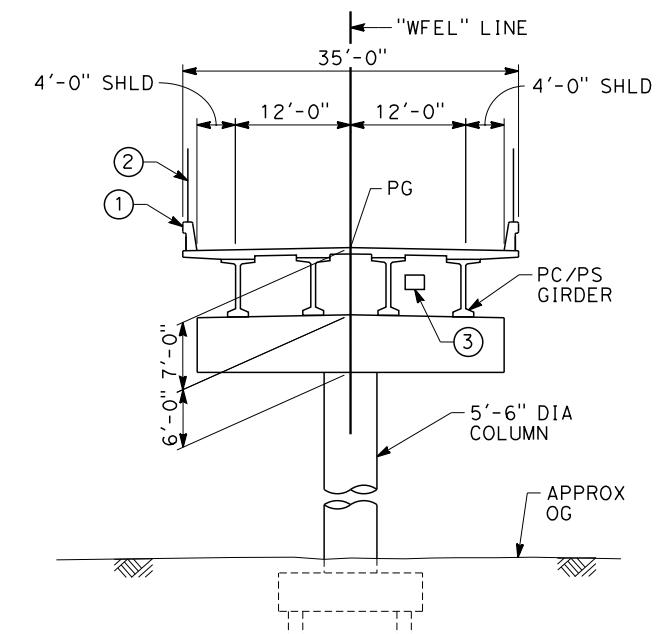
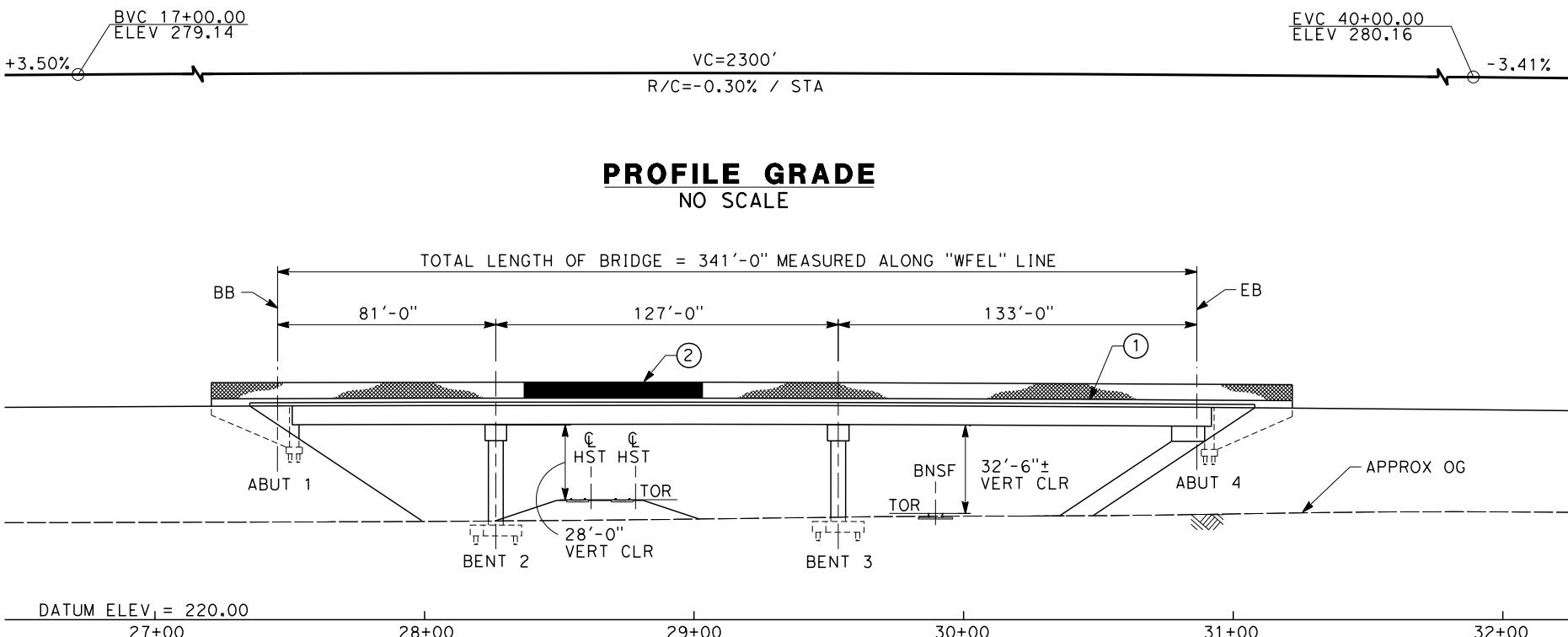
DESIGNED BY
L. SMITH
DRAWN BY
D. BARNHART
CHECKED BY
M. AMINI
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



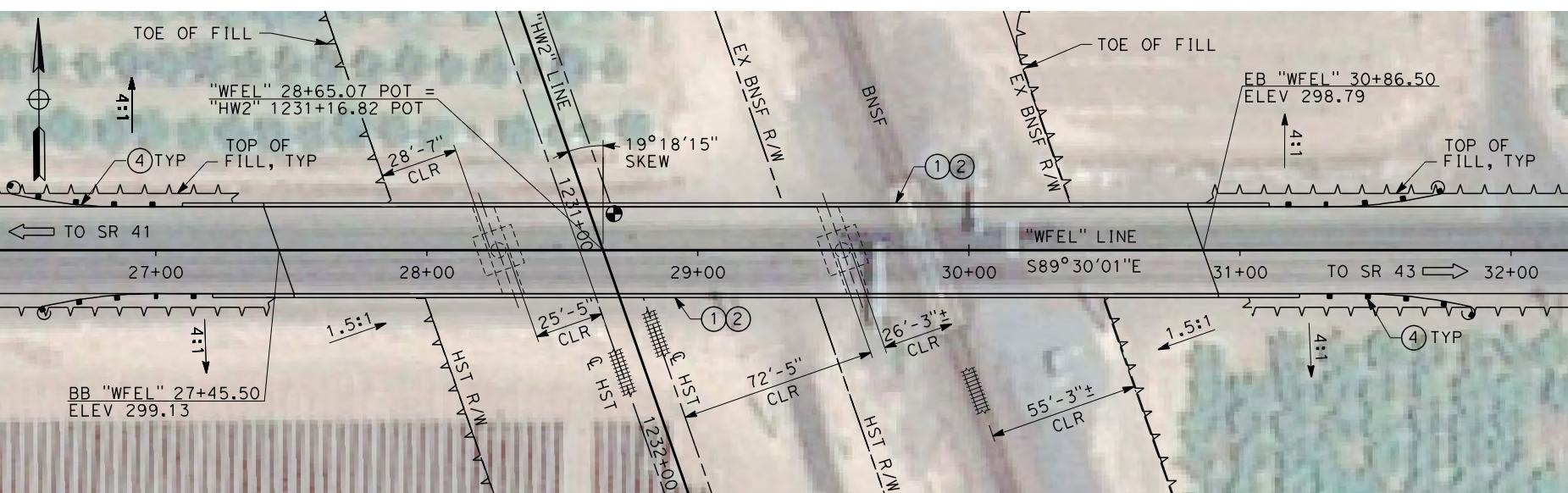
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
SB0054
SCALE
AS SHOWN
SHEET NO.
1 OF 11



TYPICAL SECTION
SCALE: 1"=10'

ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

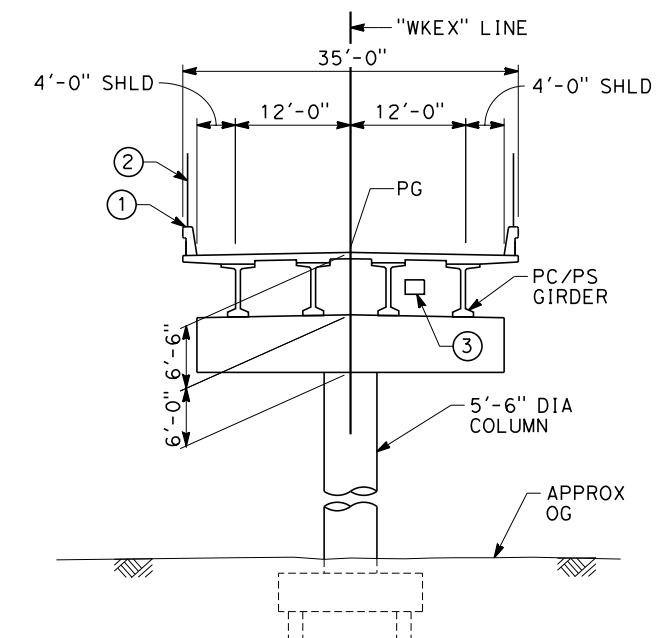
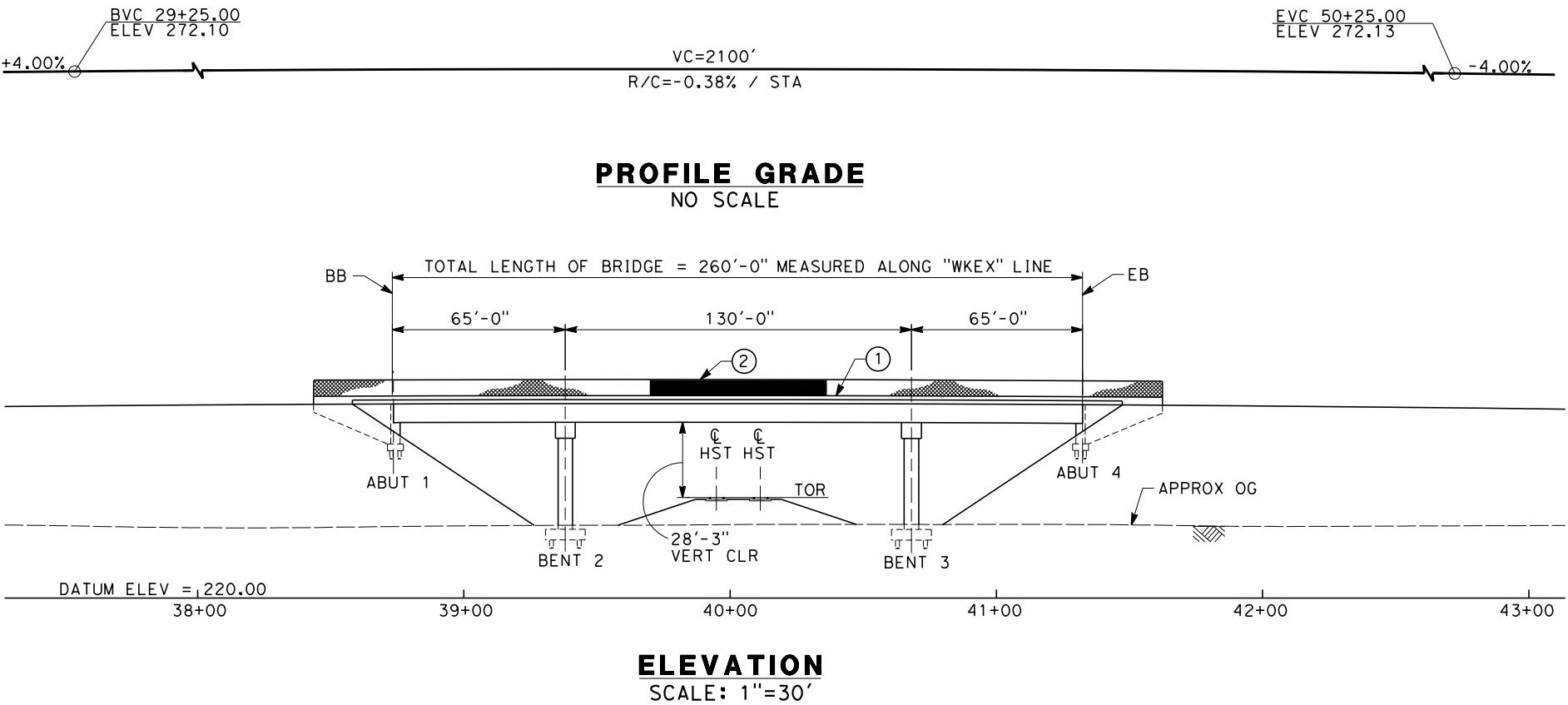
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

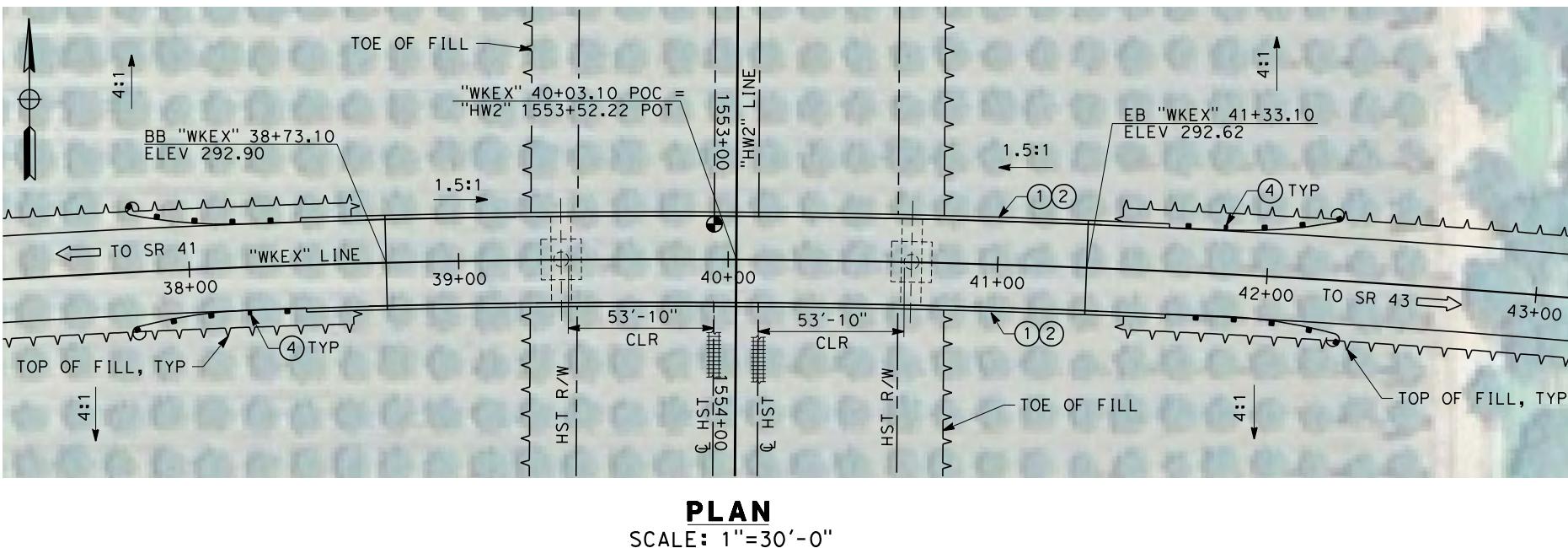
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DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONTRACT NO. HSR 06-0003
DRAWN BY P. BARBER	-			DRAWING NO. ST2350
CHECKED BY E. MORAN	-			SCALE
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION			AS SHOWN
REV DATE BY CHK APP	DESCRIPTION	DATE 12/31/13		SHEET NO. 2 OF 11

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
E ELKHORN AVE



TYPICAL SECTION
SCALE: 1"=10'



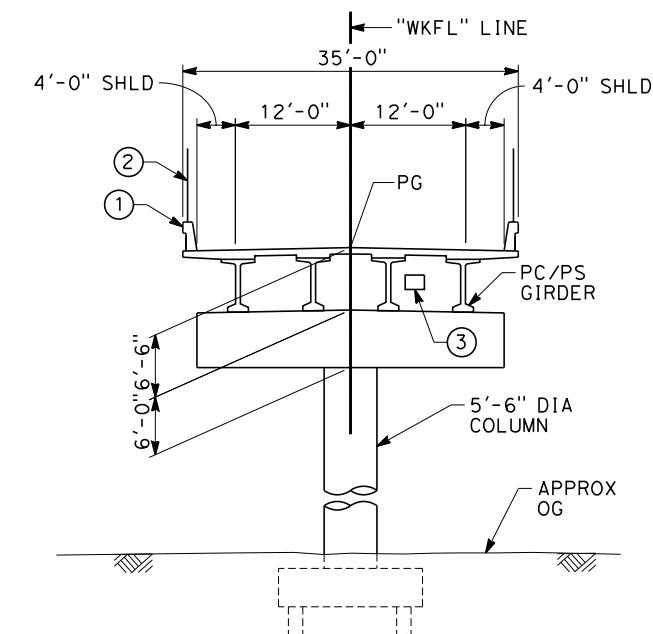
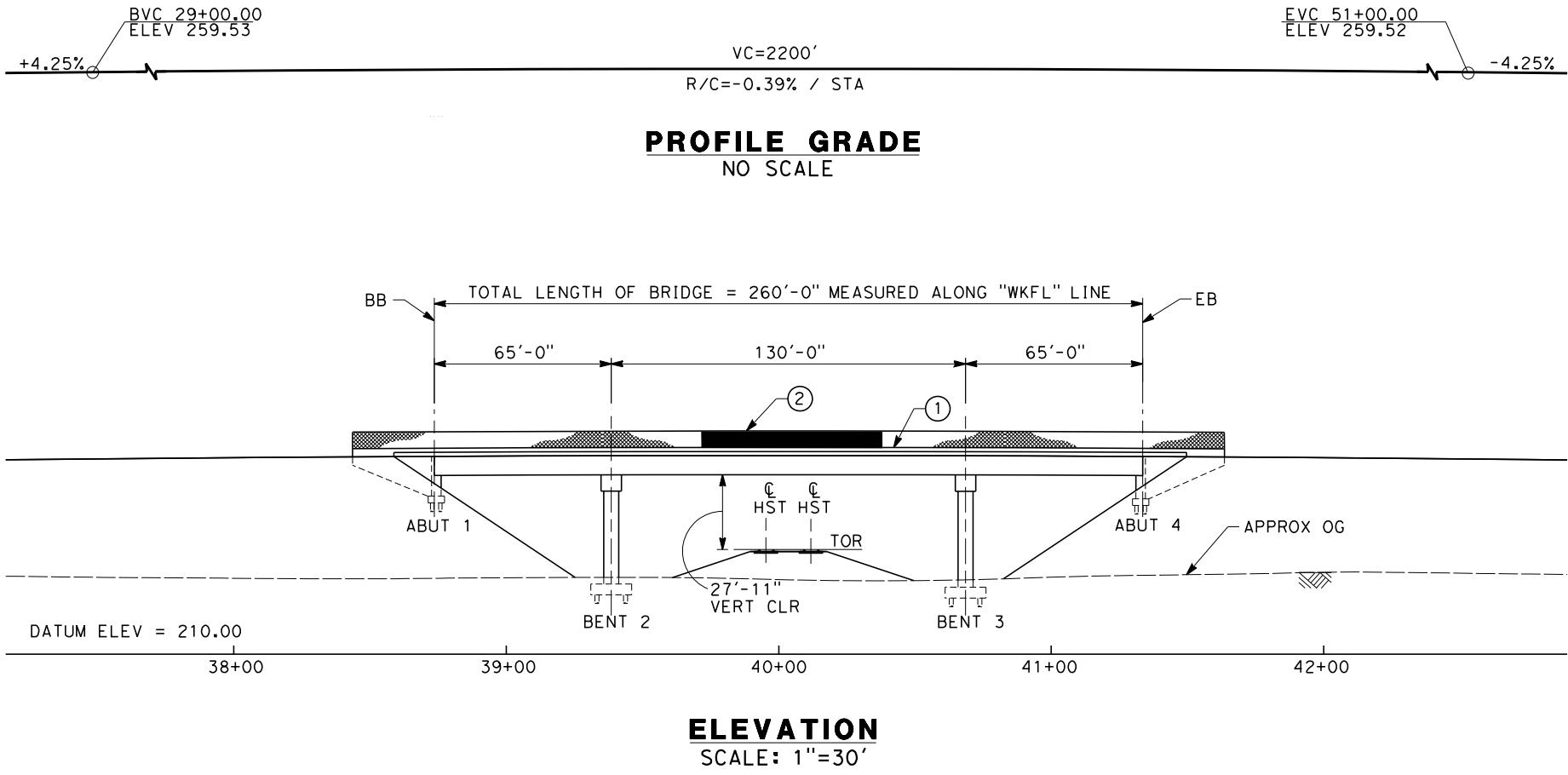
NOTES:

- ALL PILES NOT SHOWN.
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

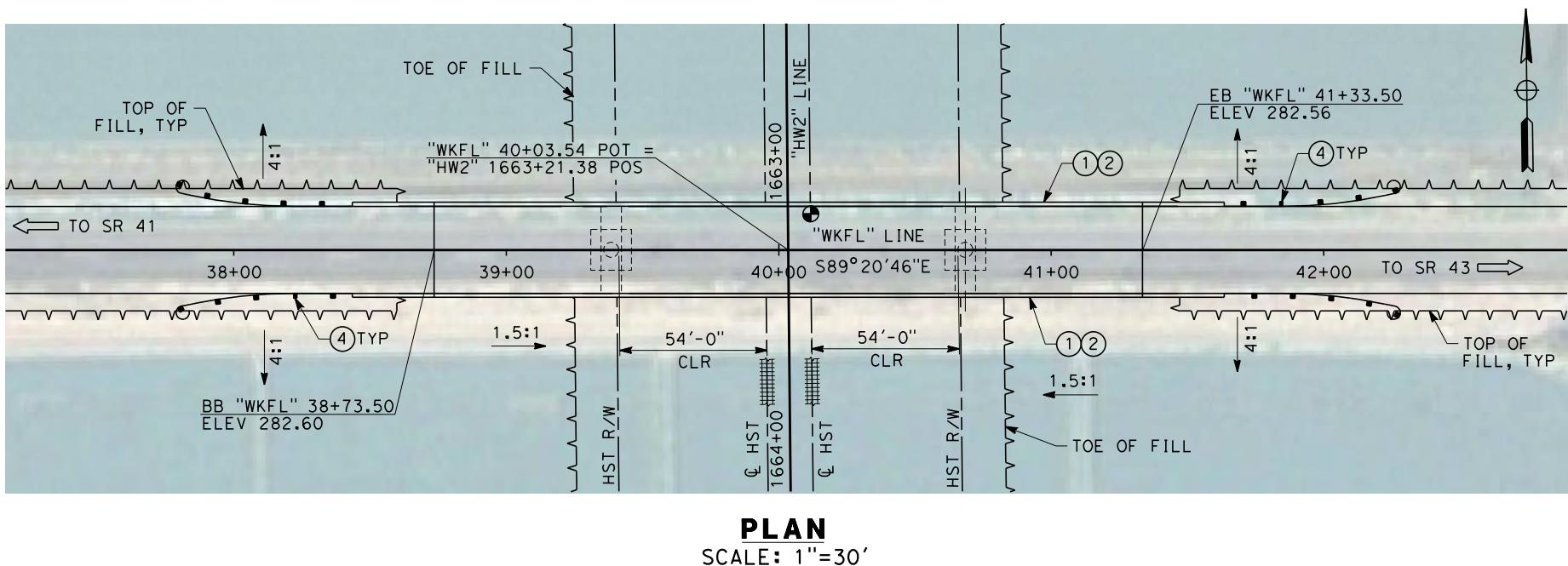
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20
I'=10'
30 0 30 60
I'=30'



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1'=10' 1'=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

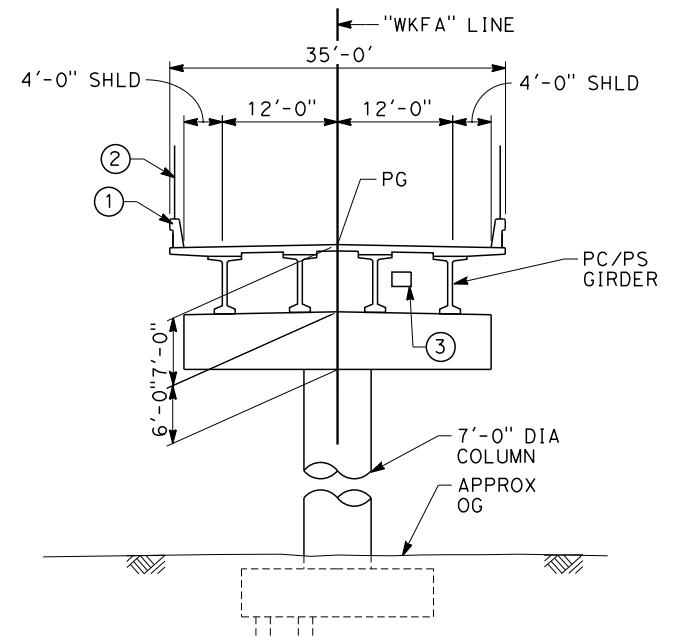
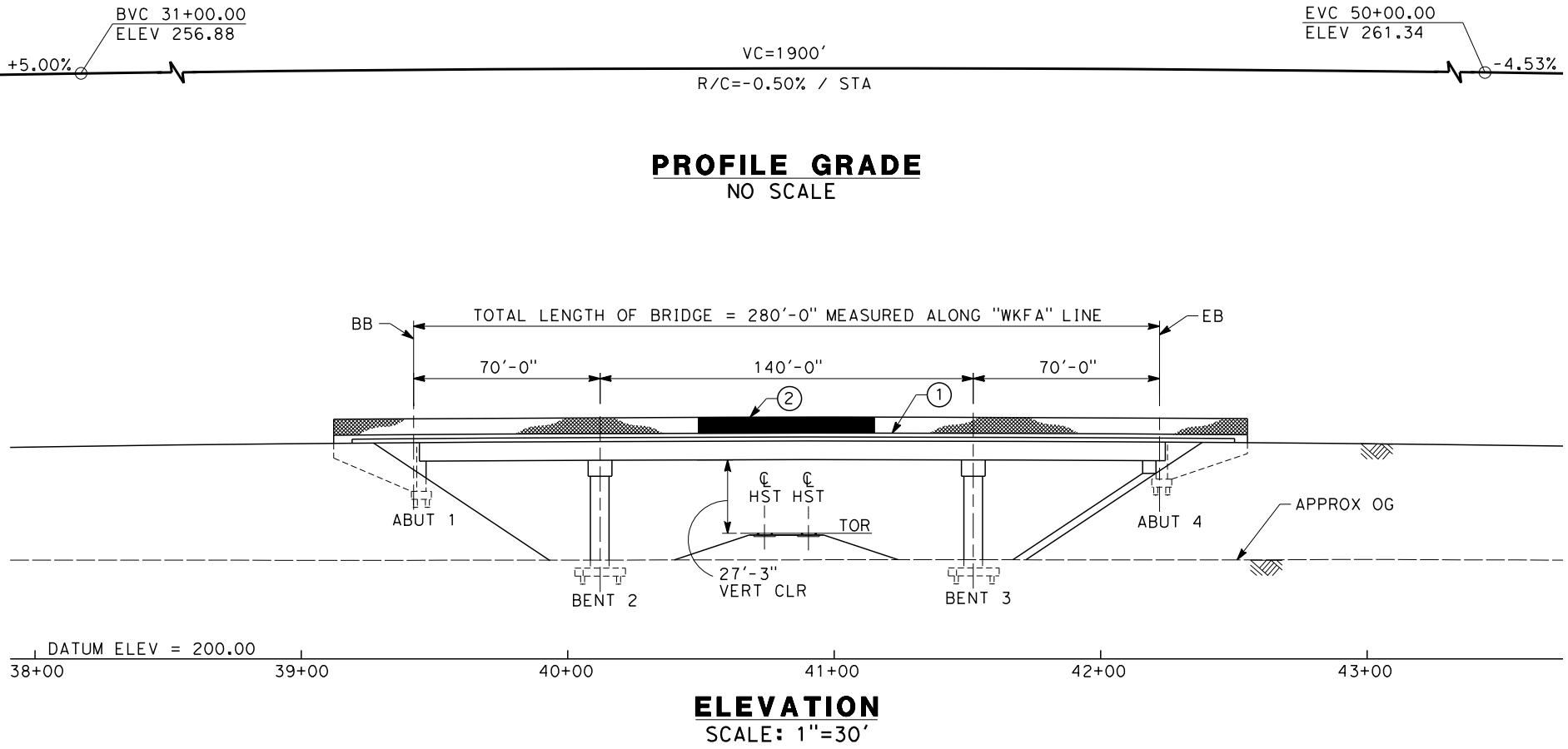
DESIGNED BY
L. SMITH
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

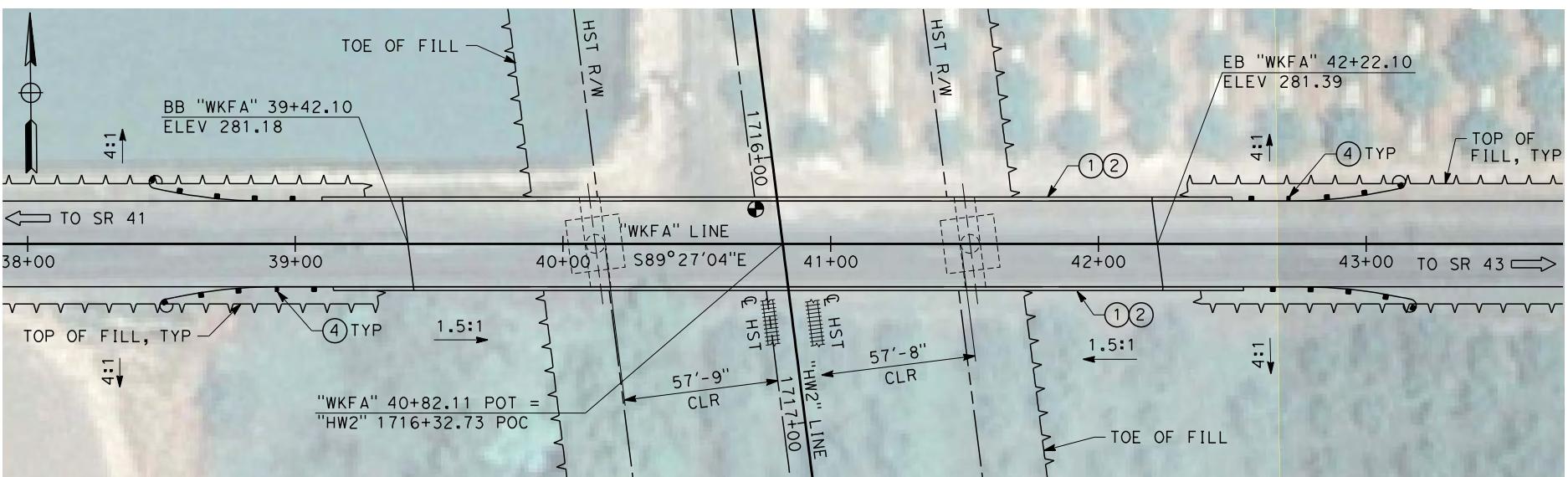


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
FLINT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2352
SCALE
AS SHOWN
SHEET NO.
4 OF 11



TYPICAL SECTION
SCALE: 1"=10'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



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REV	DATE	BY CHK APP
		DESCRIPTION

DESIGNED BY
L. SMITH
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

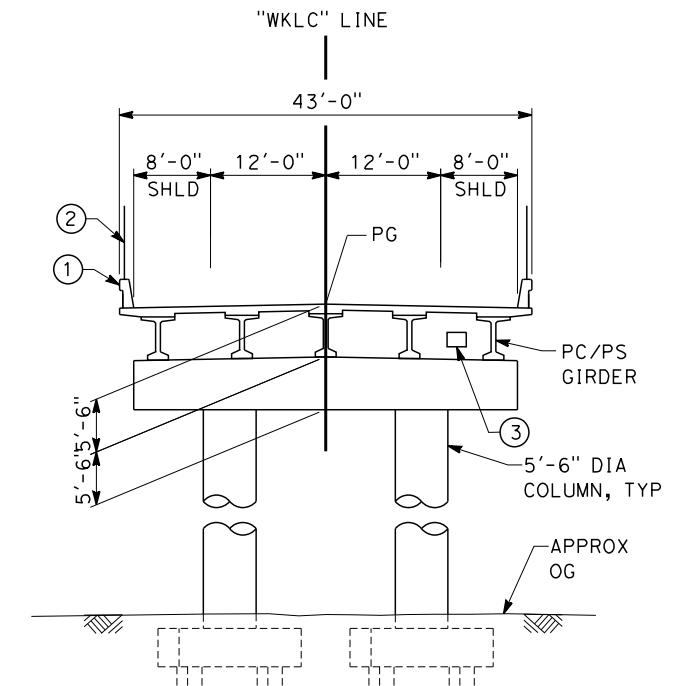
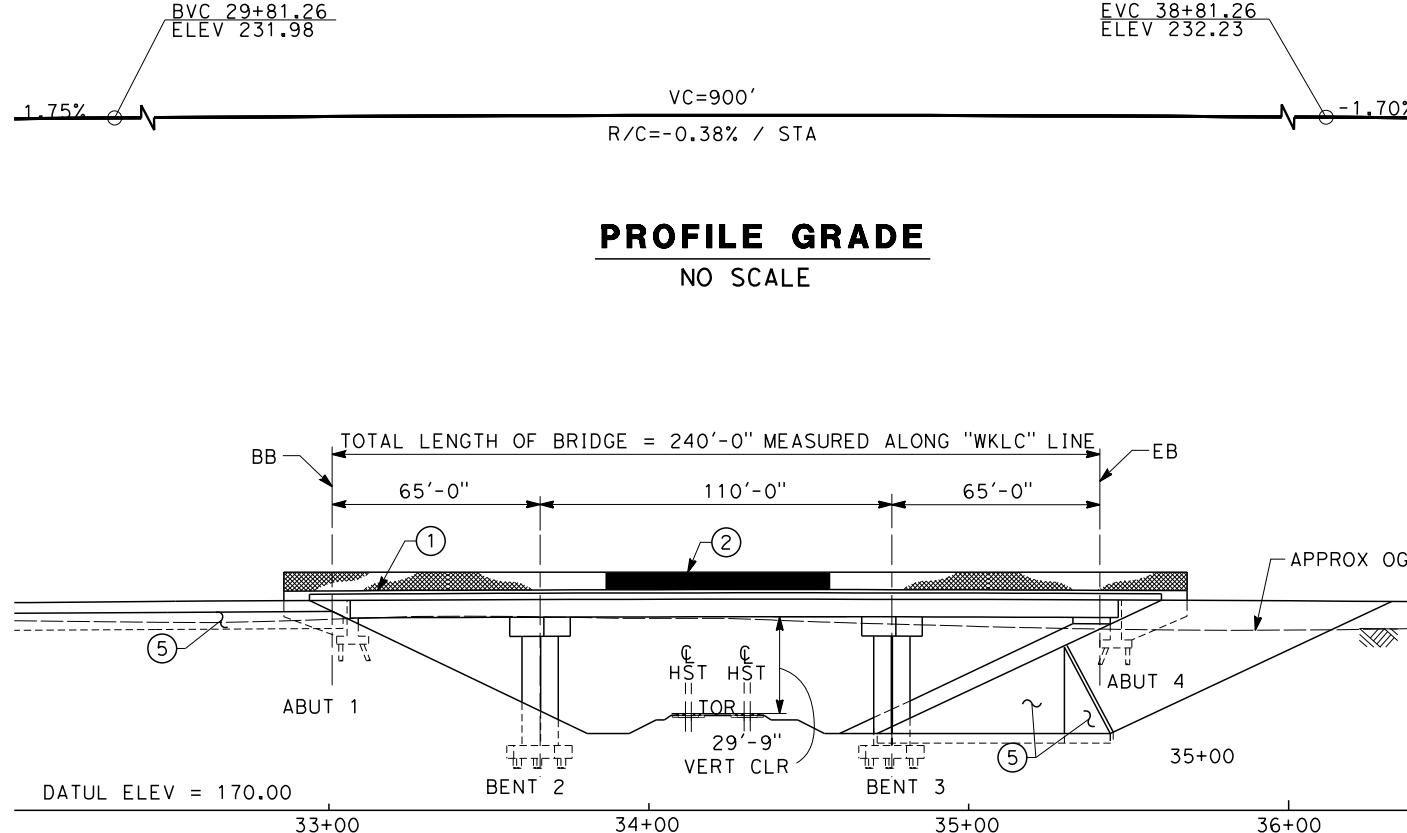


CALIFORNIA
HIGH-SPEED TRAIN

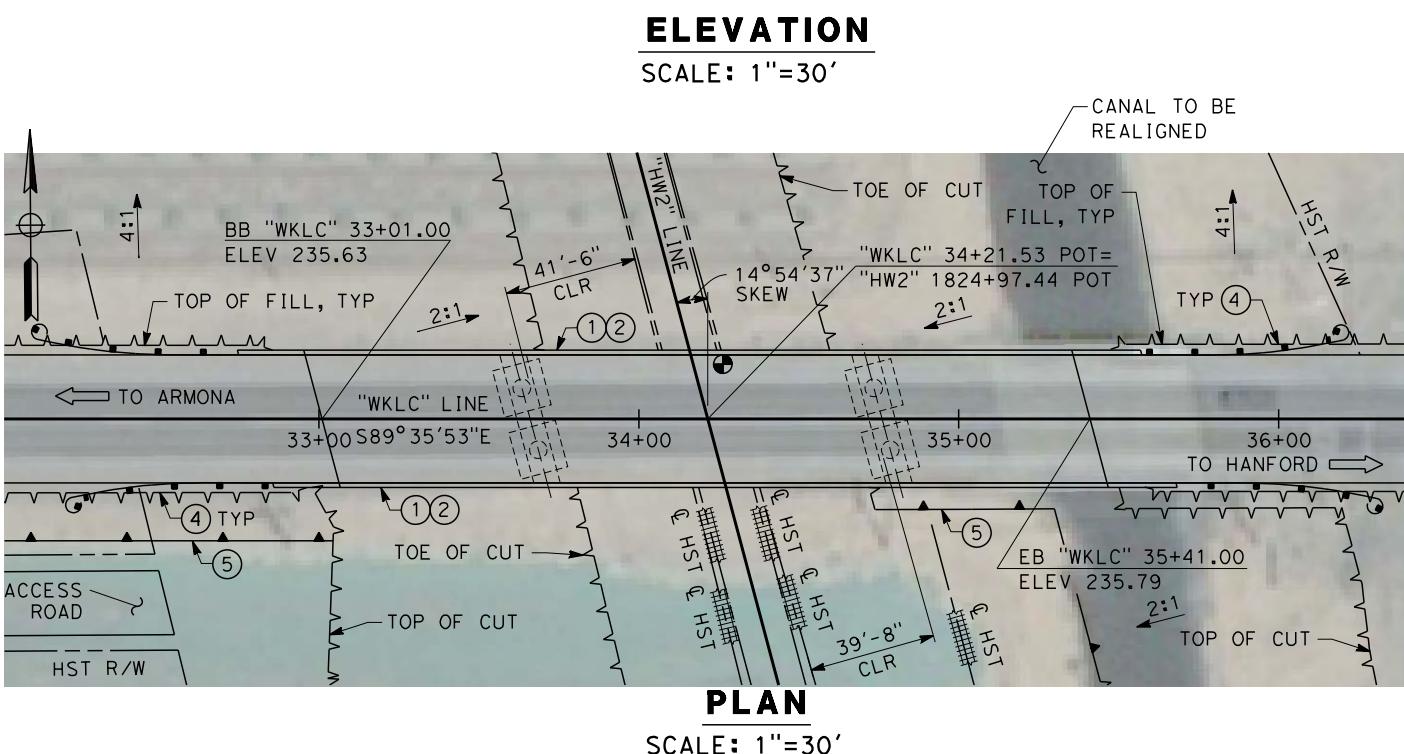


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
FARGO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2353
SCALE
AS SHOWN
SHEET NO.
5 OF 11



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL

10 0 10 20
I'=10'

30 0 30 60
I'=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
MOR45030					

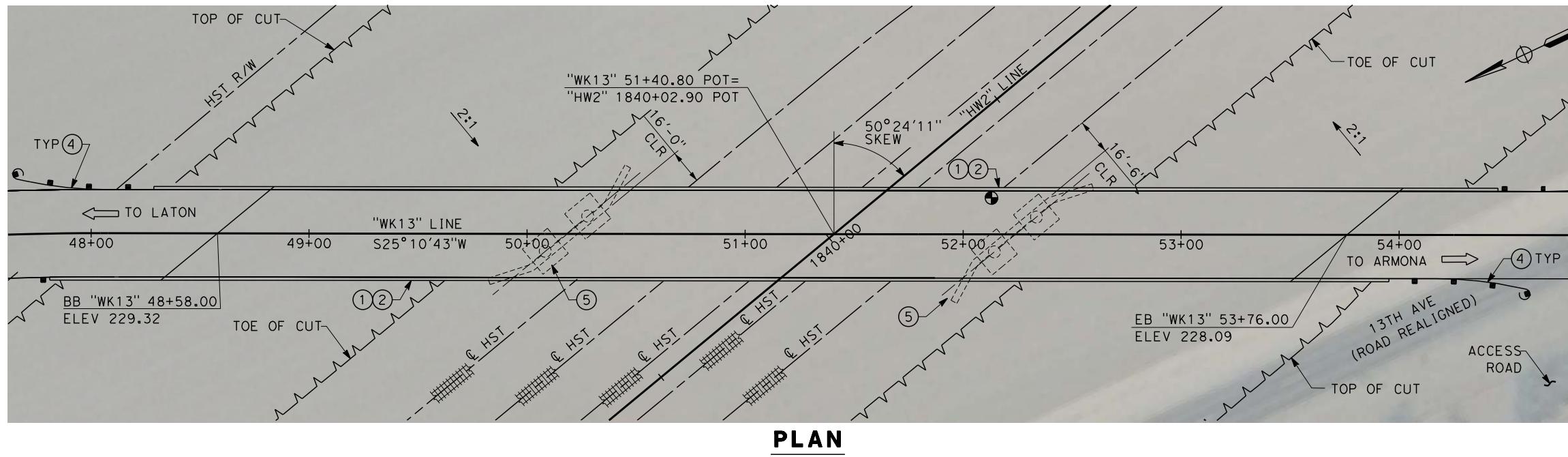
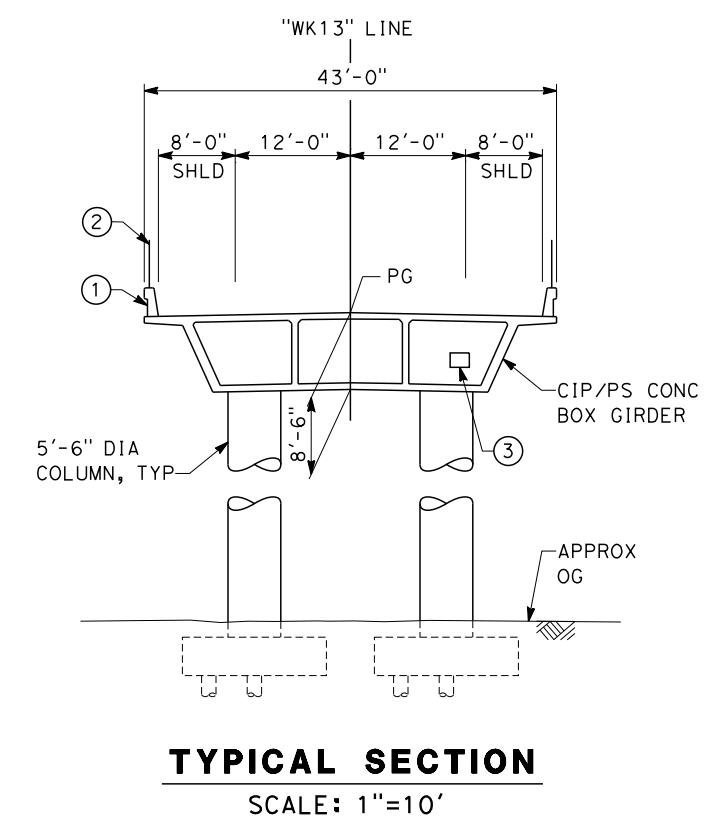
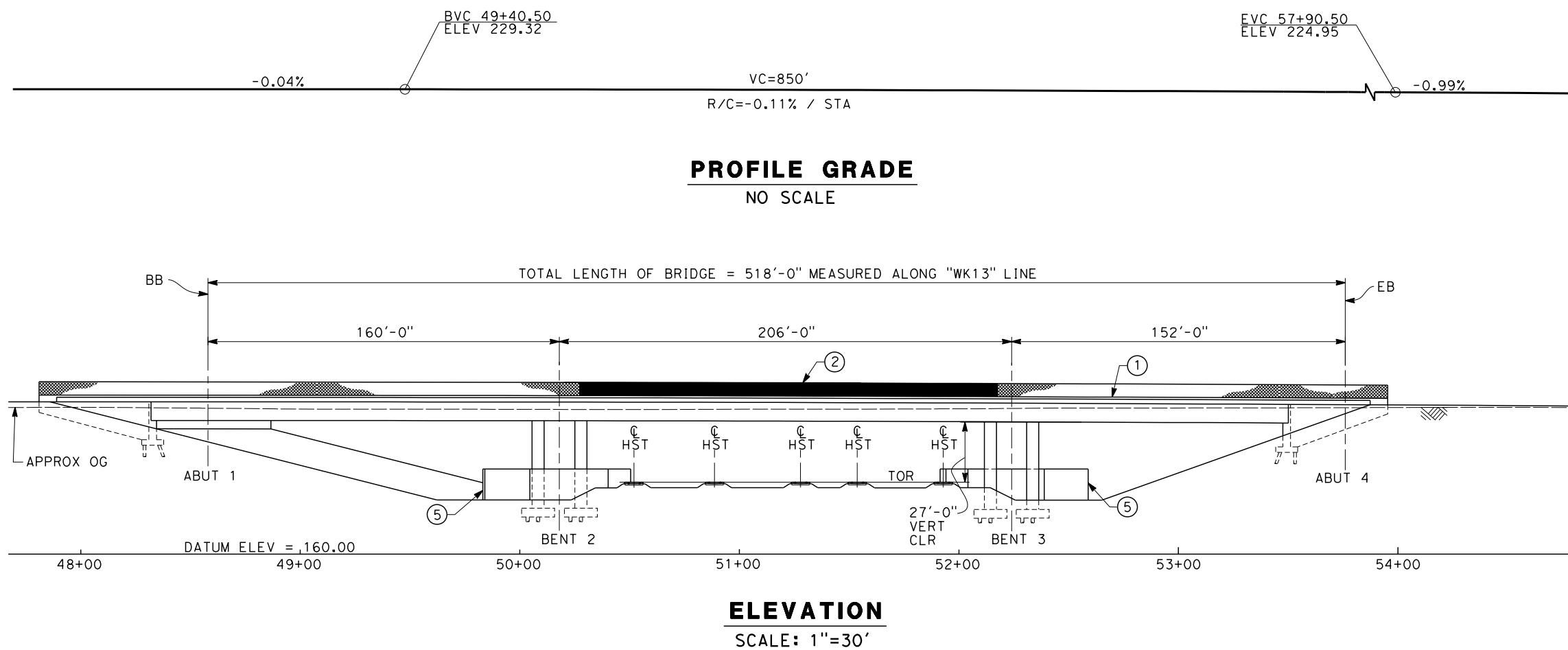
DESIGNED BY
L. SMITH
DRAWN BY
P. BARBER
CHECKED BY
E. MORAN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
W LACEY BLVD

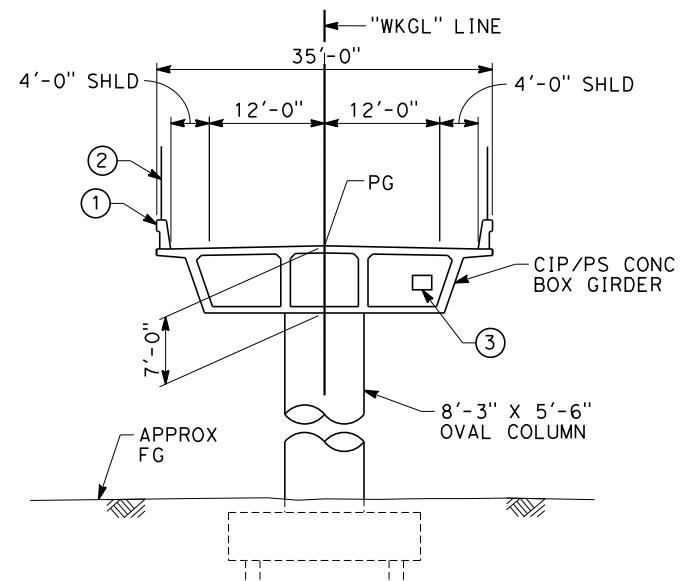
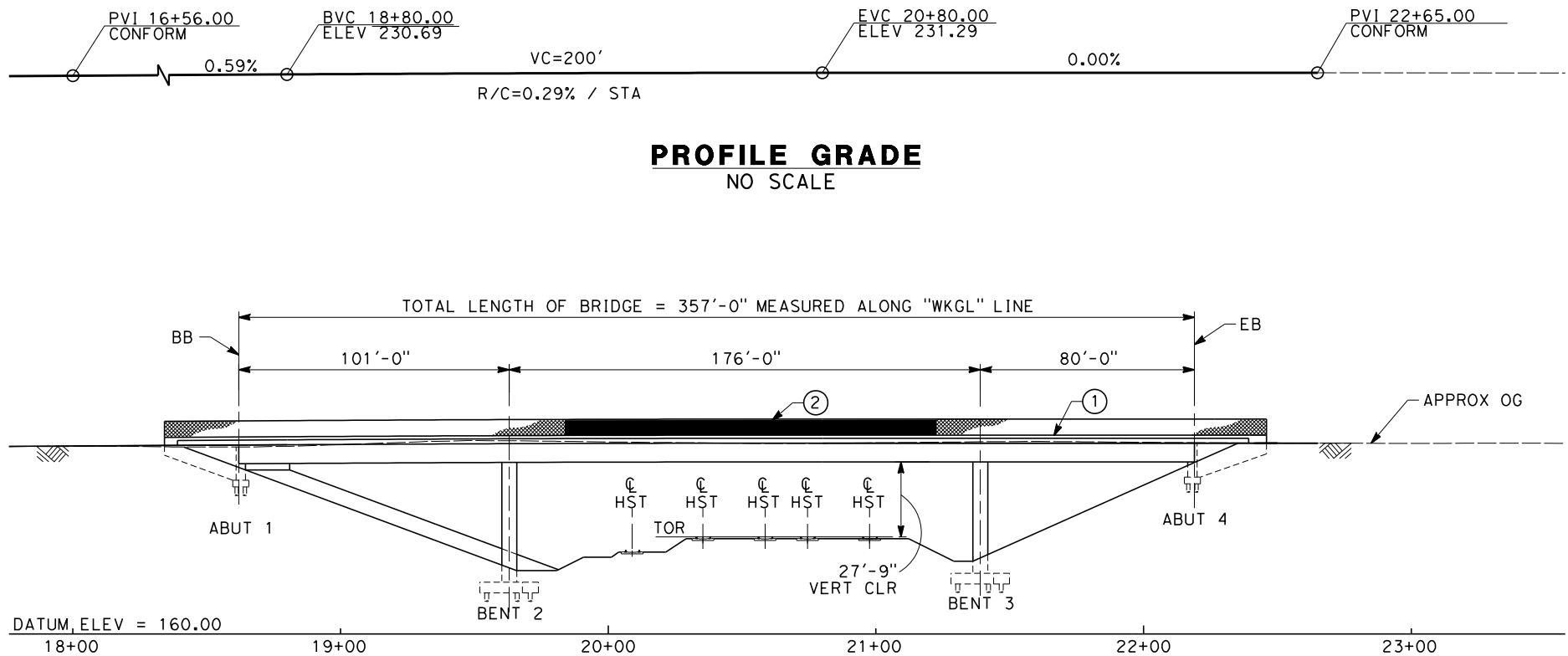
CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2354
SCALE
AS SHOWN
SHEET NO.
6 OF 11

**NOTES:**

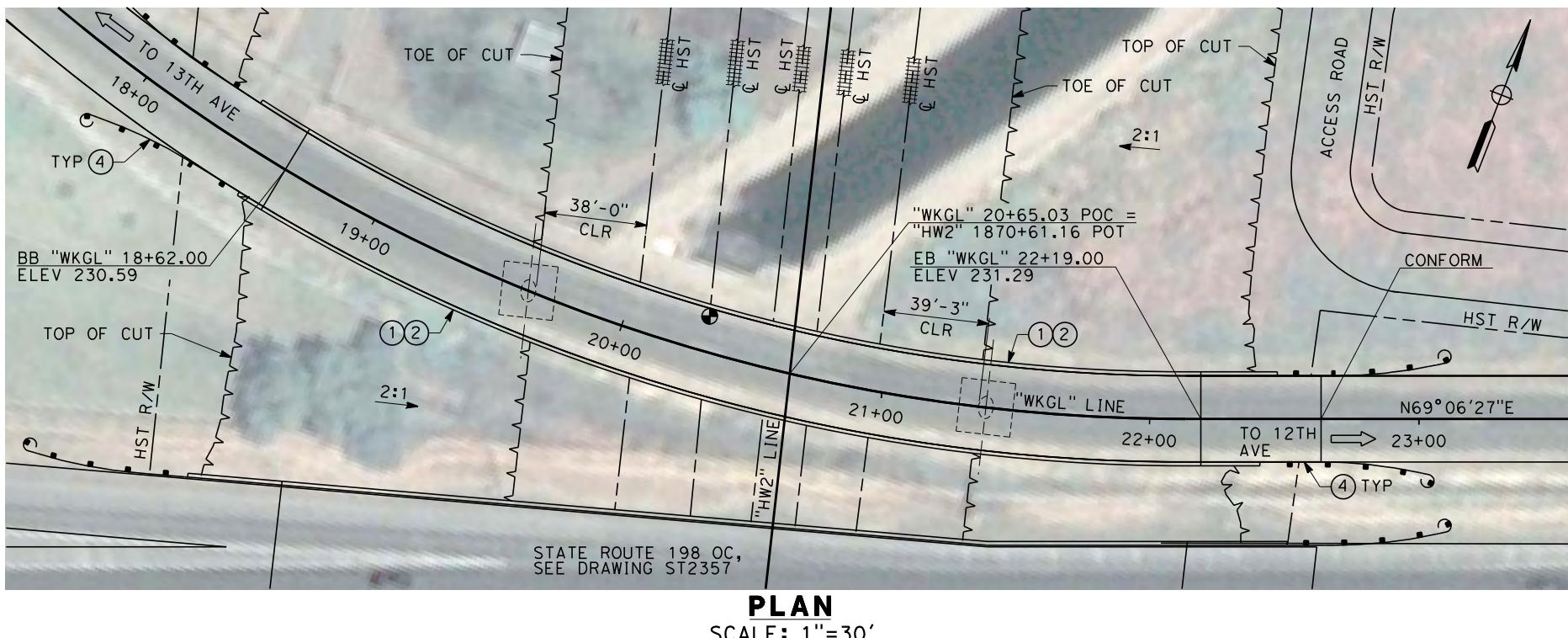
1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ PIER PROTECTION



DEVELOPED ELEVATION
SCALE: 1"=30'



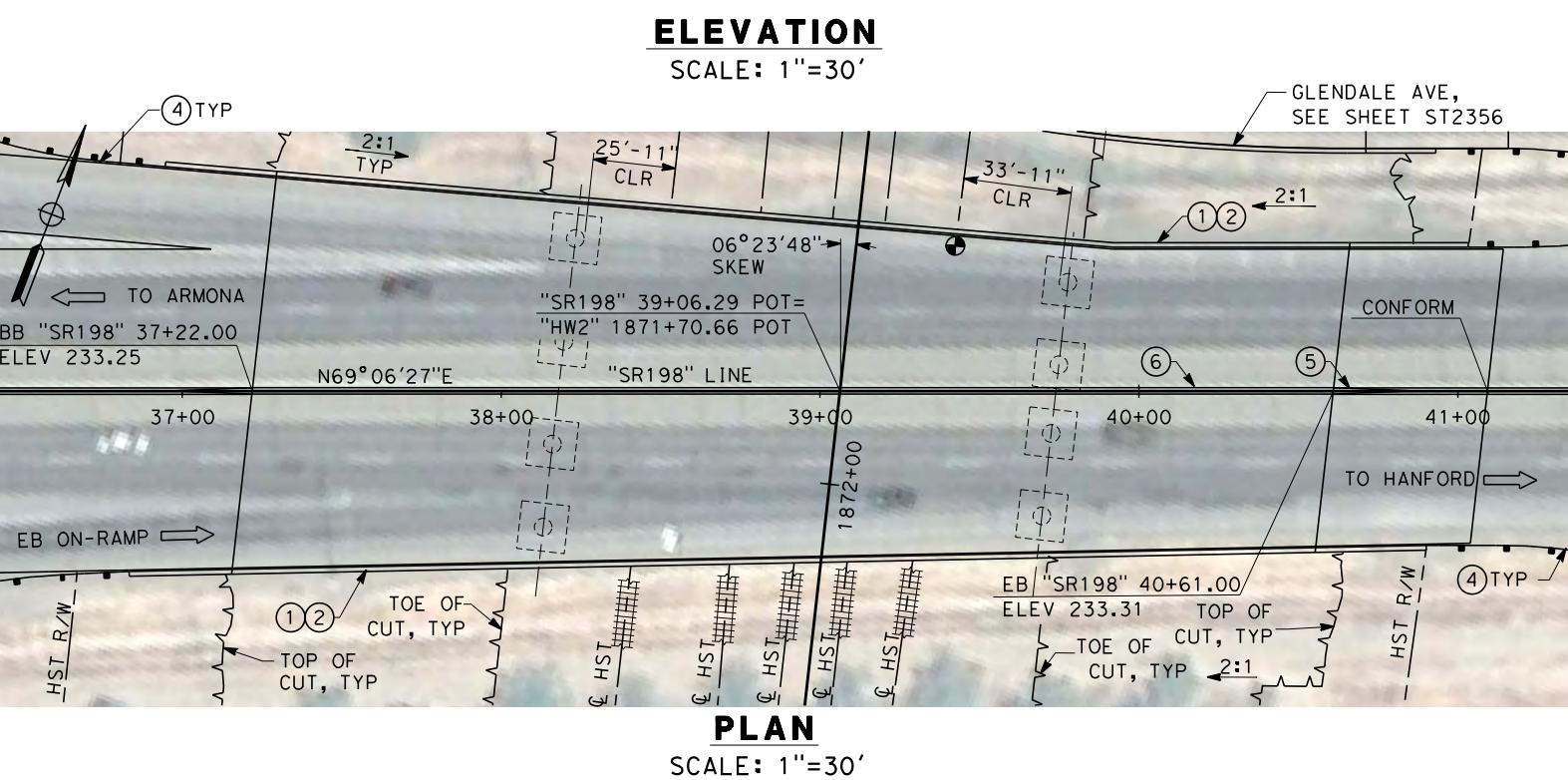
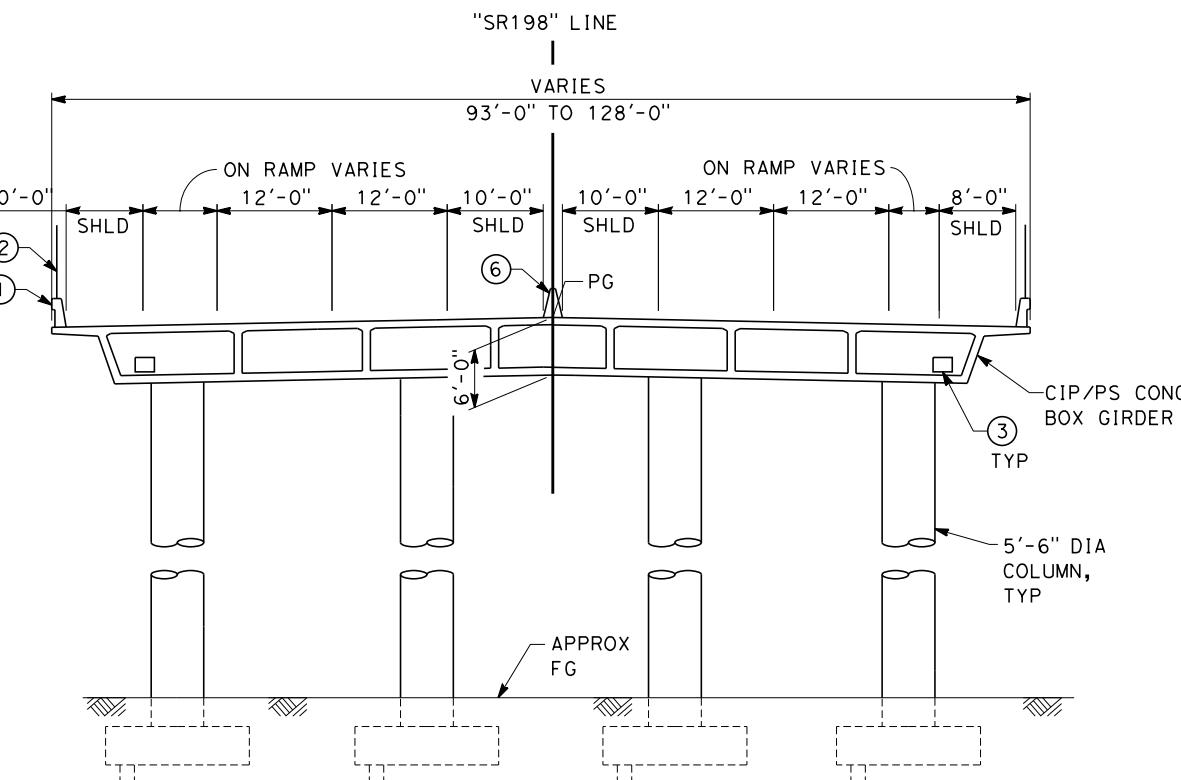
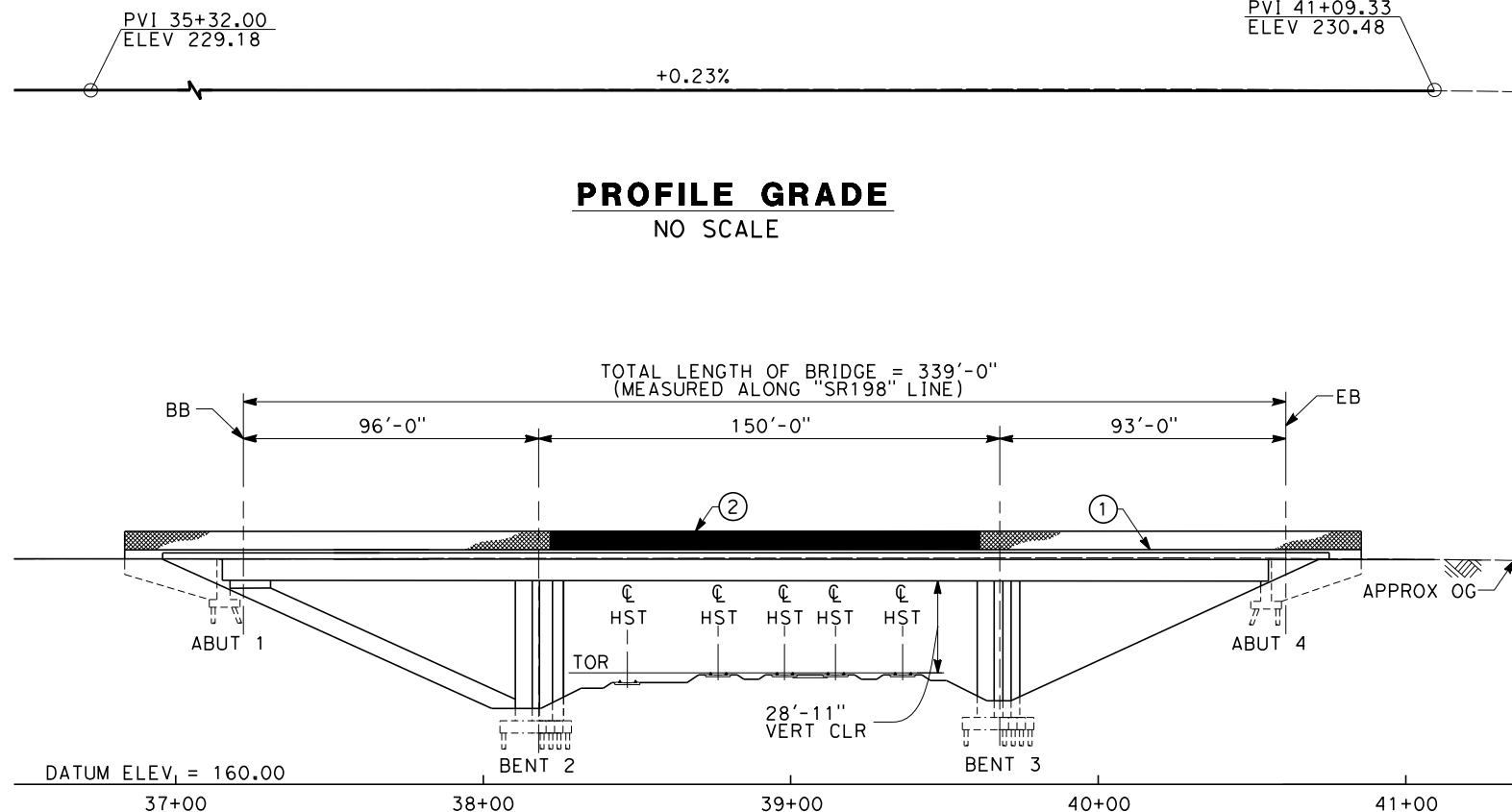
NOTES:

- ALL PILES NOT SHOWN.
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

10 0 10 20
I'=10'
30 0 30 60
I'=30'



NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.
3. STAGED CONSTRUCTION TO BE COORDINATED WITH LOCAL AGENCIES.

TYPICAL SECTION

SCALE: 1"=10'

LEGENDA

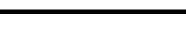
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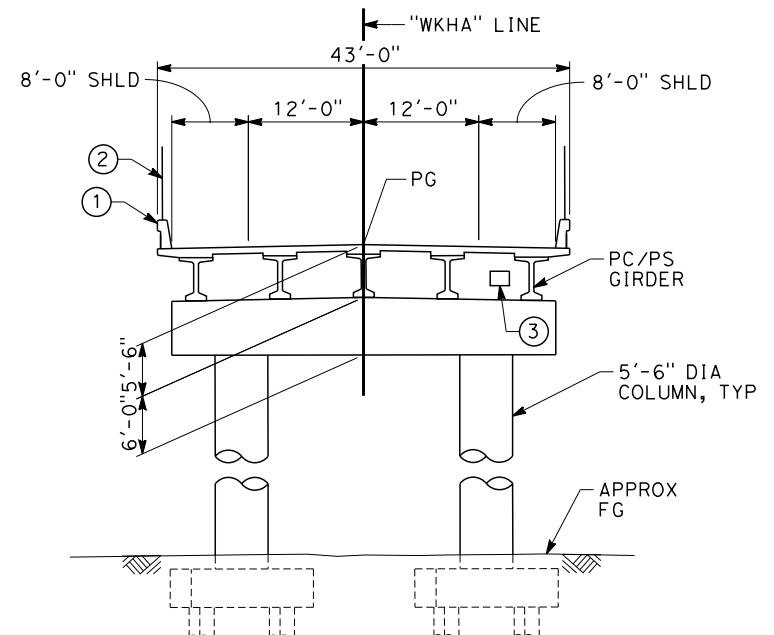
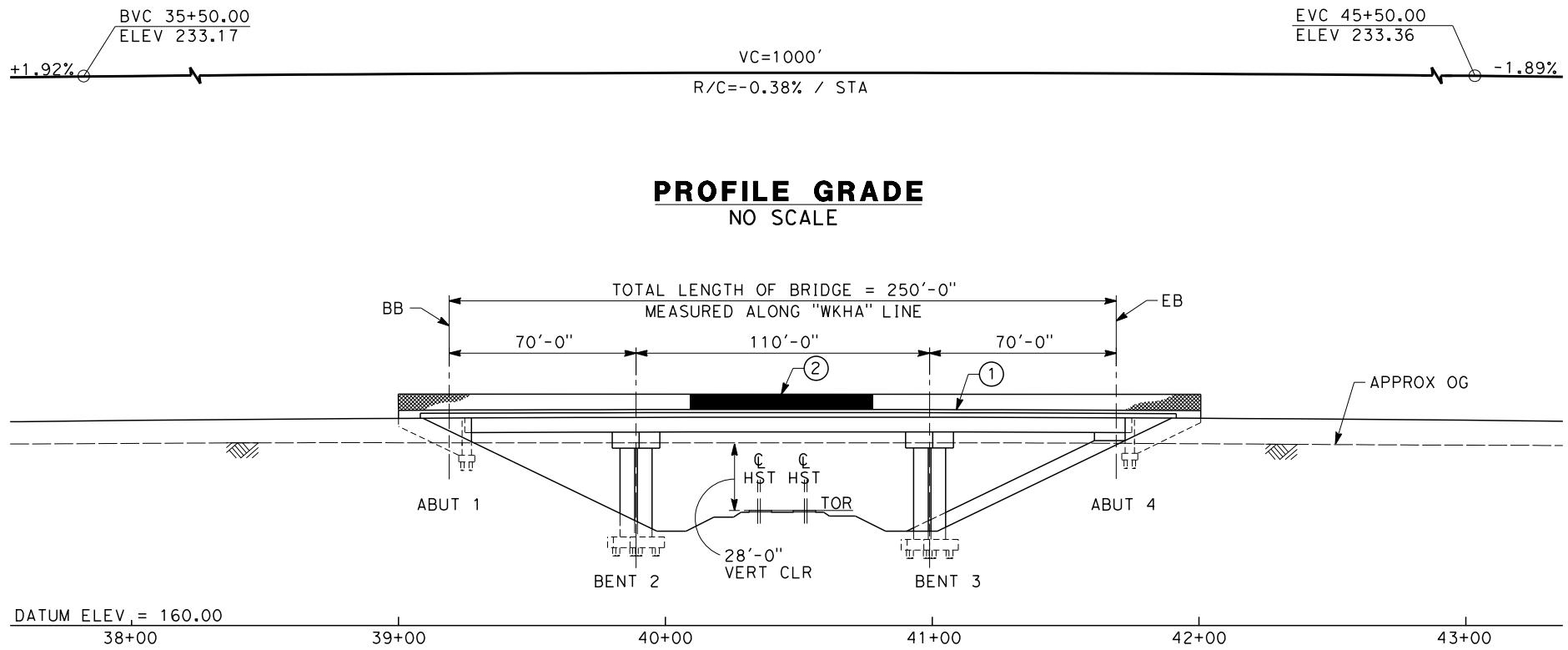
- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ CRASH CUSHION
- ⑥ CONCRETE BARRIER (TYPE 60)



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

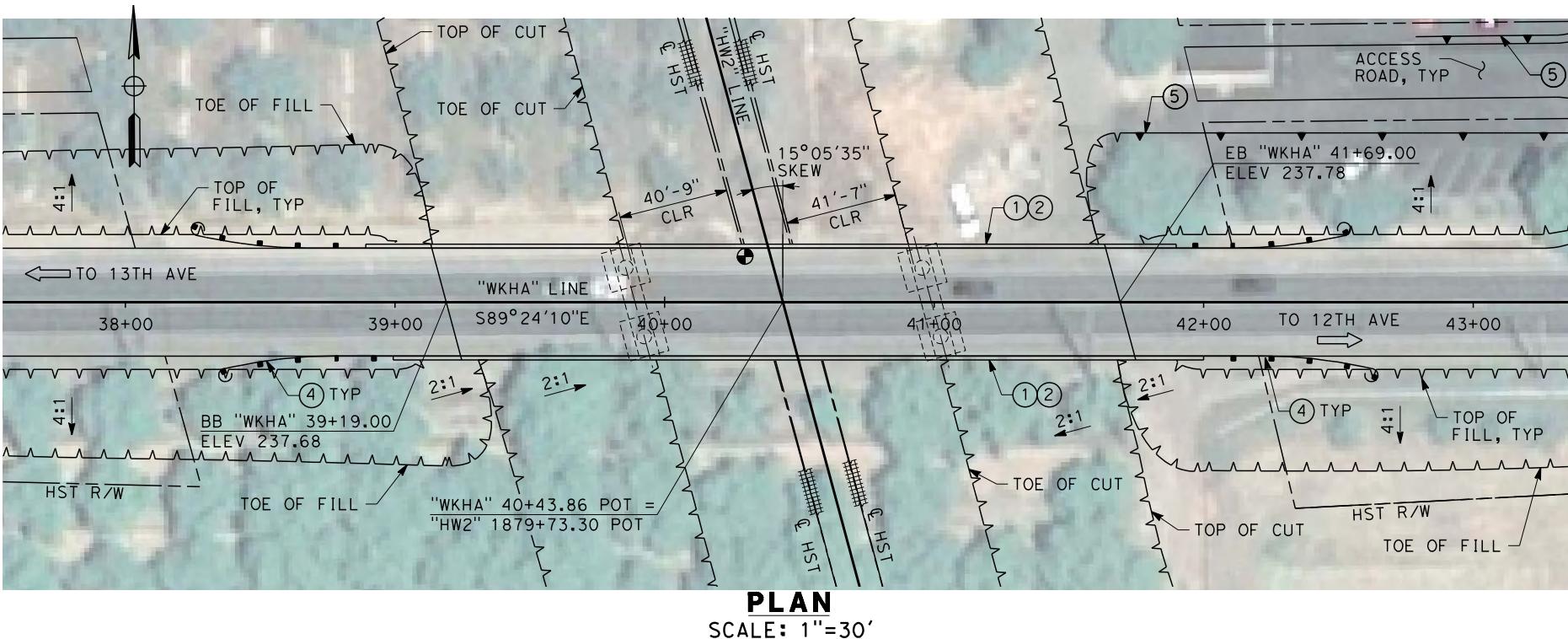
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
STATE ROUTE 198

						DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION <hr/> NOT FOR CONSTRUCTION	 	 <i>CALIFORNIA</i> <small>HIGH-SPEED RAIL AUTHORITY</small>	CALIFORNIA HIGH-SPEED TRAIN PROJECT					CONTRACT NO. HSR 06-0003
					DRAWN BY P. BARBER	FRESNO TO BAKERSFIELD					DRAWING NO. ST2357				
					CHECKED BY E. MORAN	HANFORD WEST BYPASS SUBSECTION					SCALE AS SHOWN				
					IN CHARGE R. COFFIN	ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED					SHEET NO. 9 OF 11				
					DATE 12/31/13	OVERHEAD PLANNING STUDY					STATE ROUTE 198				
REV	DATE	BY	CHK	APP	DESCRIPTION										



TYPICAL SECTION
SCALE: 1"=10'

ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR
- (5) RETAINING WALL

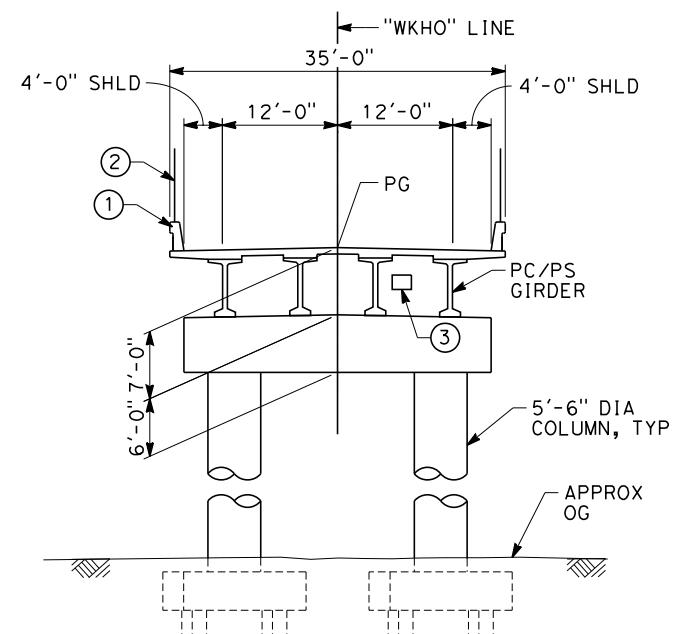
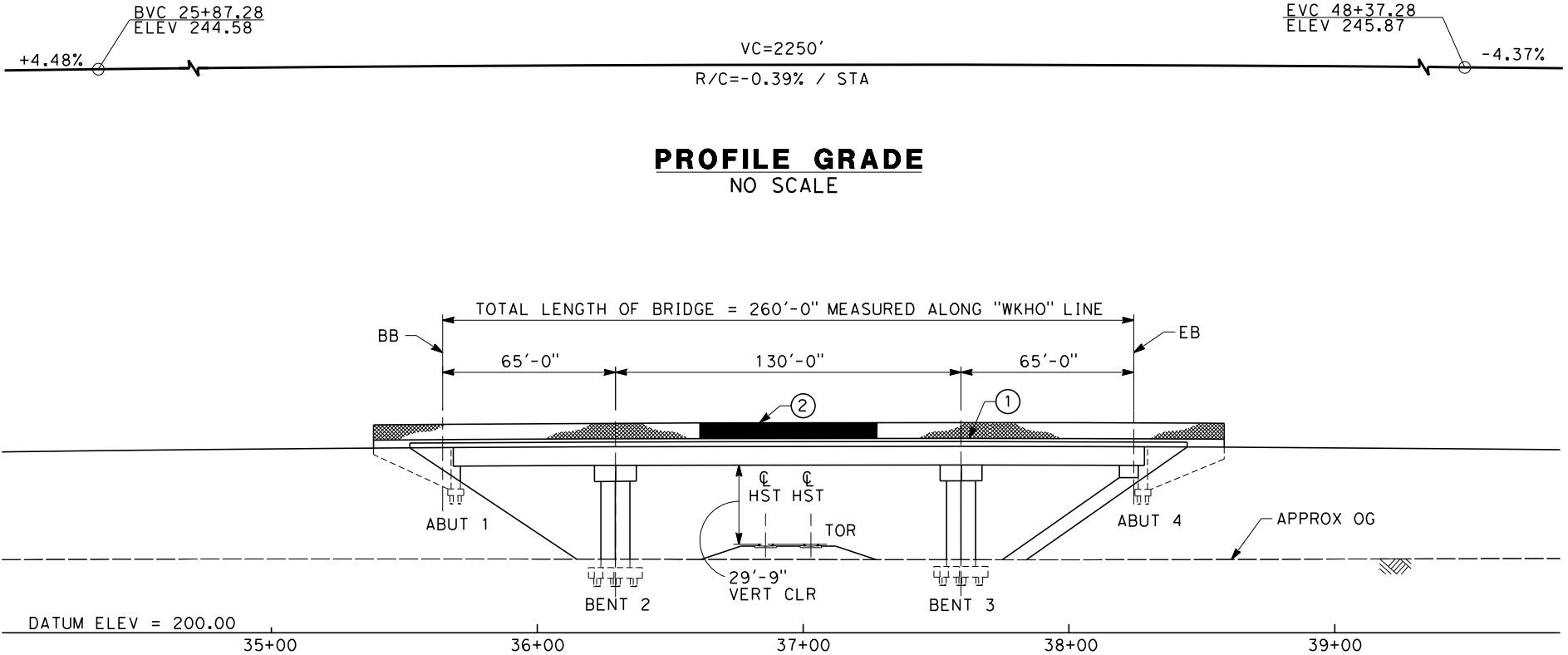
10 0 10 20
1'=10'
30 0 30 60
1'=30'

REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY L. SMITH	DRAWN BY P. BARBER	CHECKED BY E. MORAN	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	
MOR45030	12/26/2013 00:55 AM										



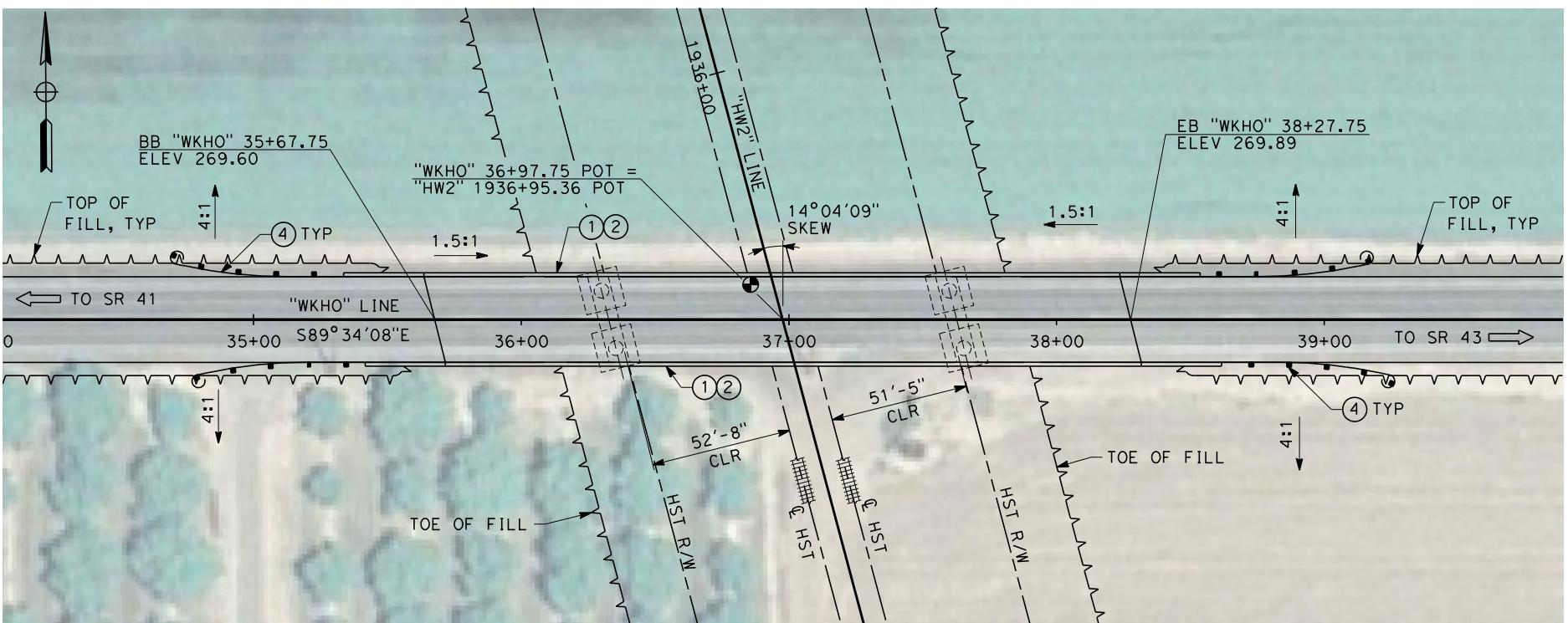
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
HANFORD ARMONA RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2358
SCALE
AS SHOWN
SHEET NO.
10 OF 11



TYPICAL SECTION
SCALE: 1"=10'

ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN.
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

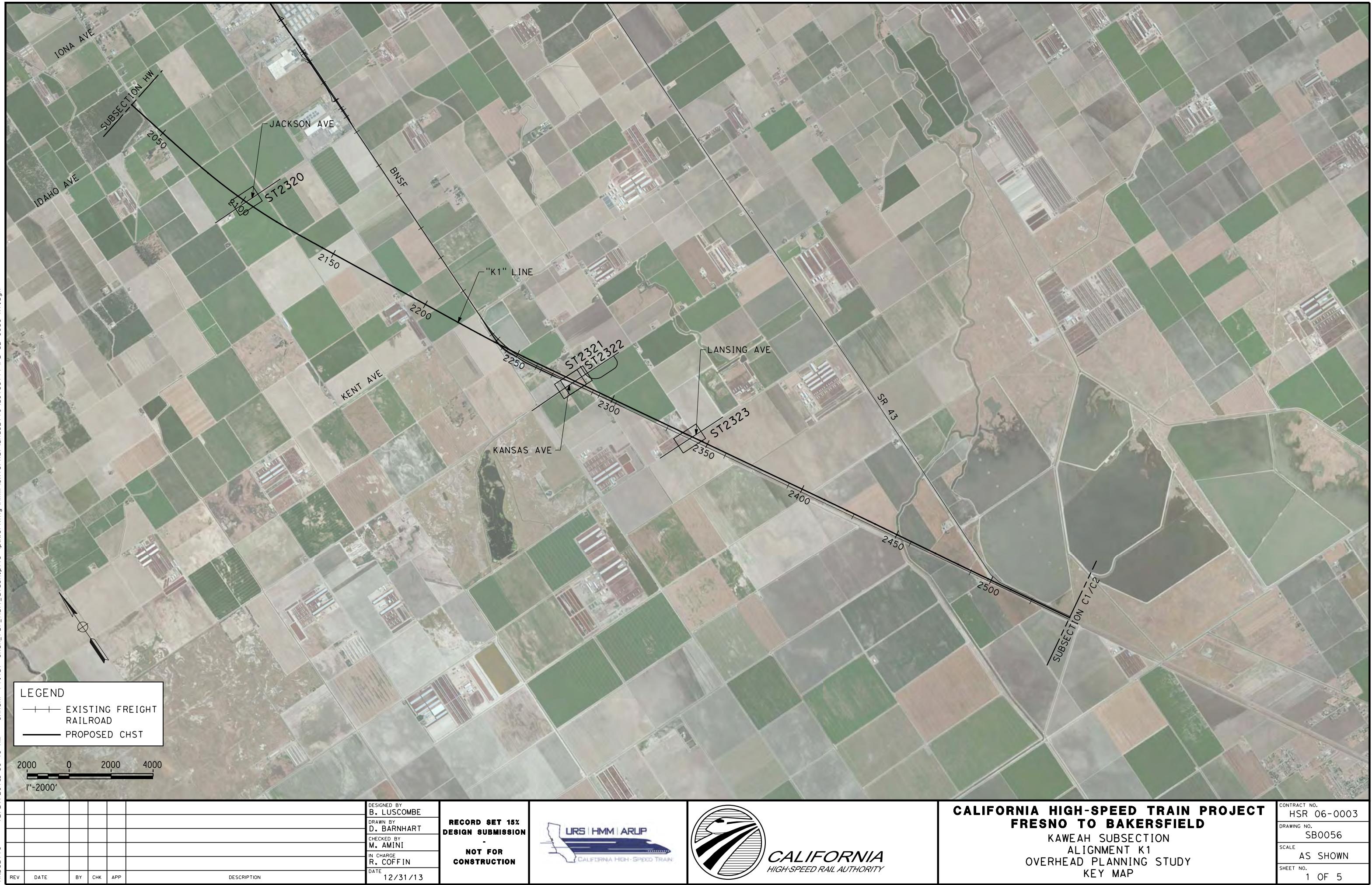
10 0 10 20 30 0 30 60
1"=10' 1"=30'

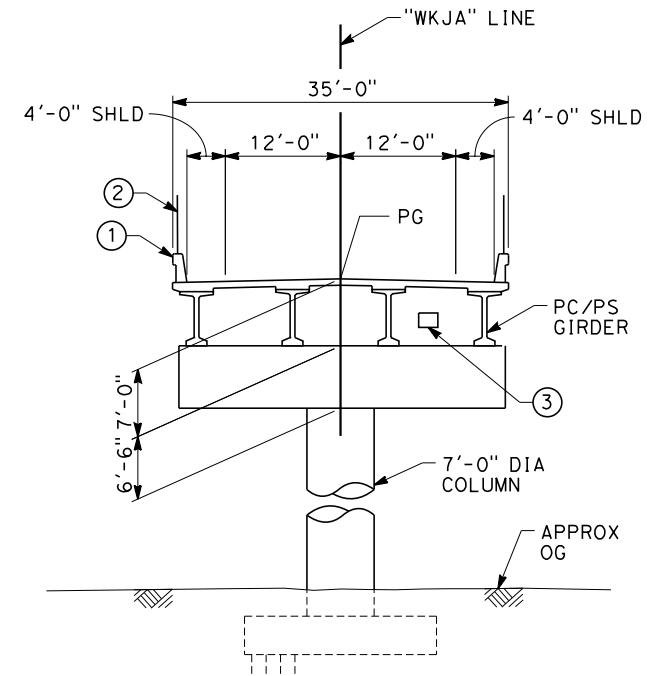
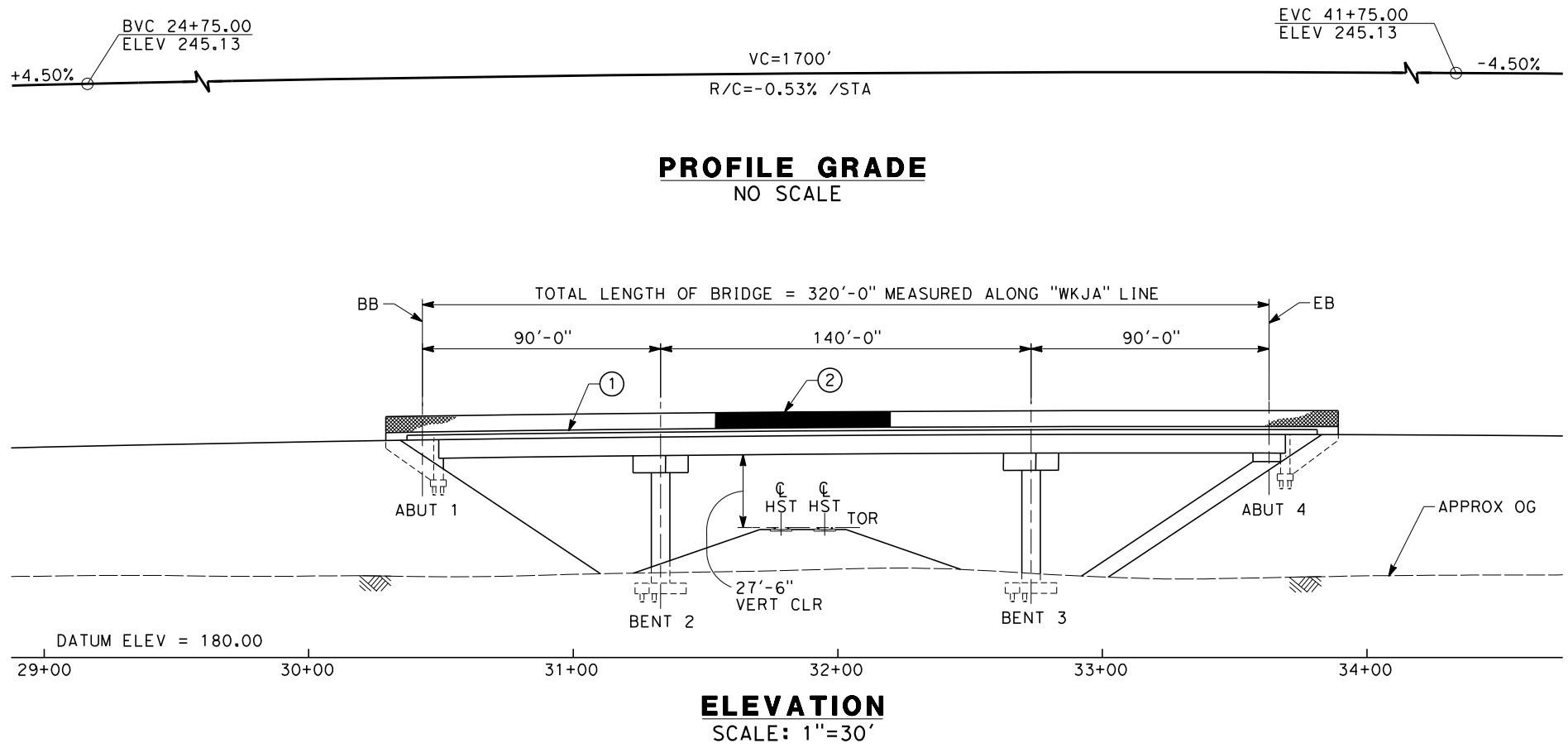
REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY L. SMITH	DRAWN BY P. BARBER	CHECKED BY E. MORAN	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION



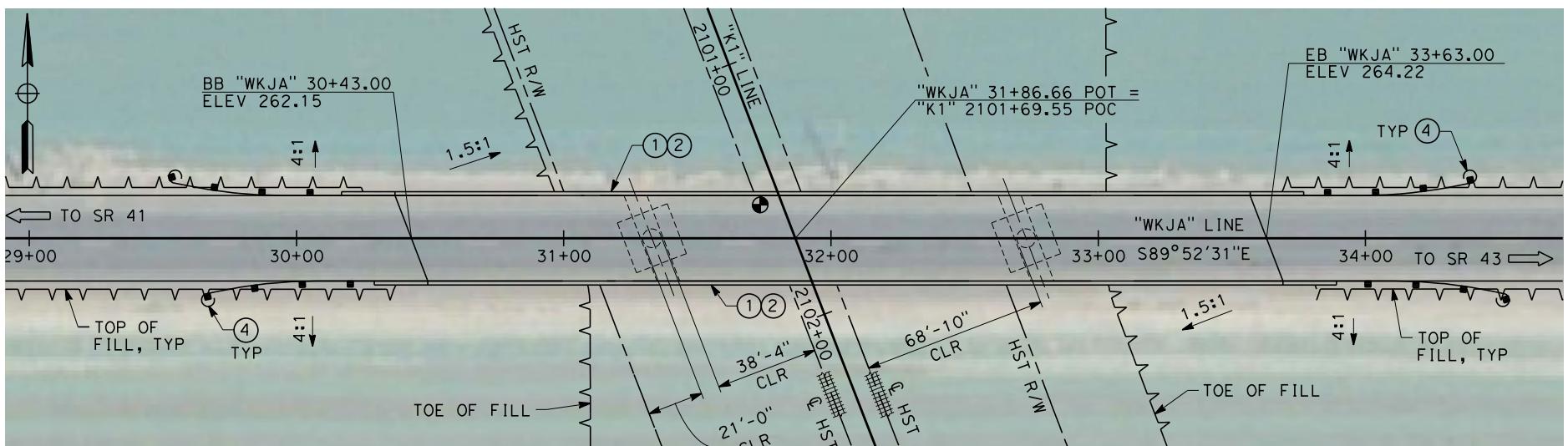
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED
OVERHEAD PLANNING STUDY
HOUSTON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2359
SCALE
AS SHOWN
SHEET NO.
11 OF 11





TYPICAL SECTION
SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

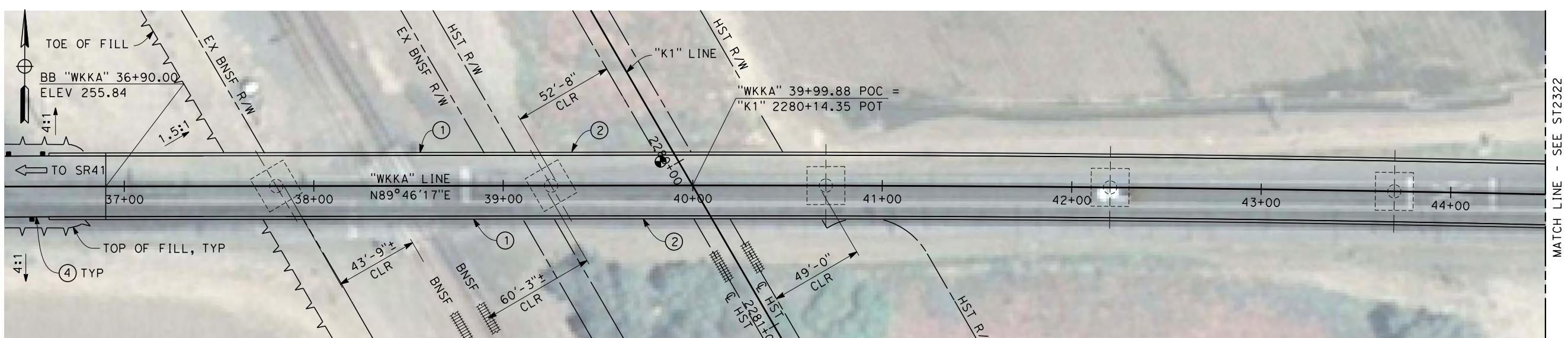
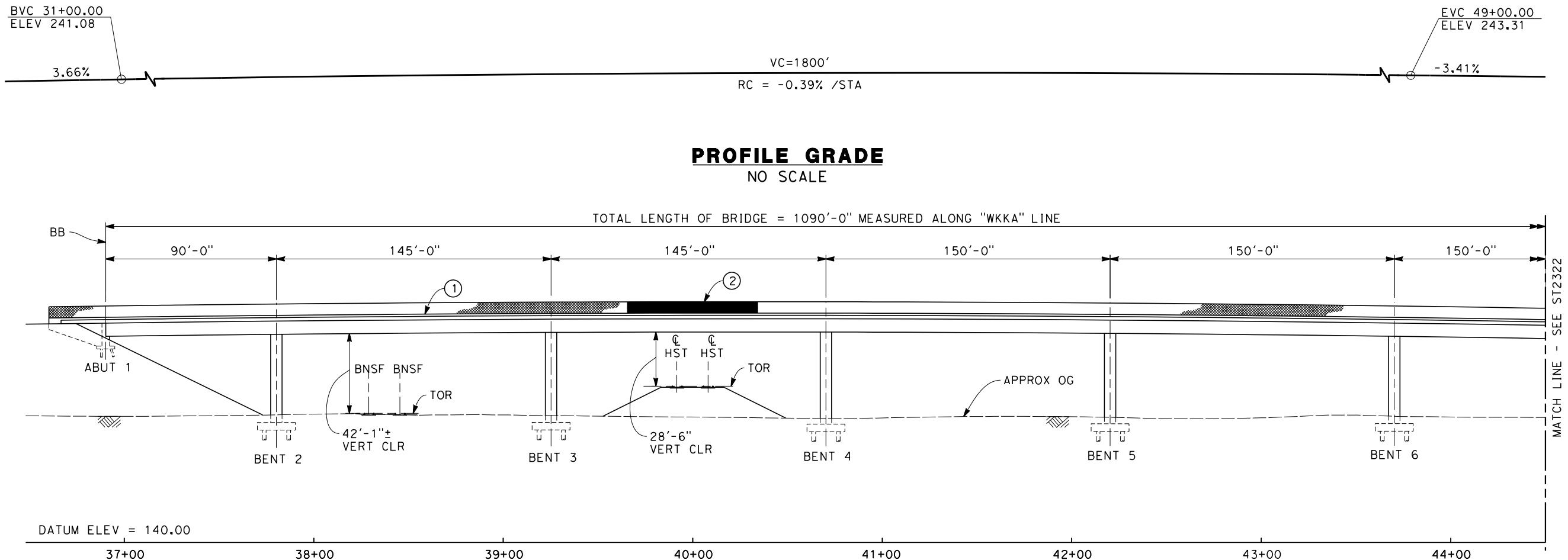
10 0 10 20
I'=10'
30 0 30 60
I'=30'

REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY B. LUSCOMBE	DRAWN BY D. BARNHART	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION	IN CHARGE R. COFFIN	DATE 12/31/13



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K1
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2320
SCALE
AS SHOWN
SHEET NO.
2 OF 5



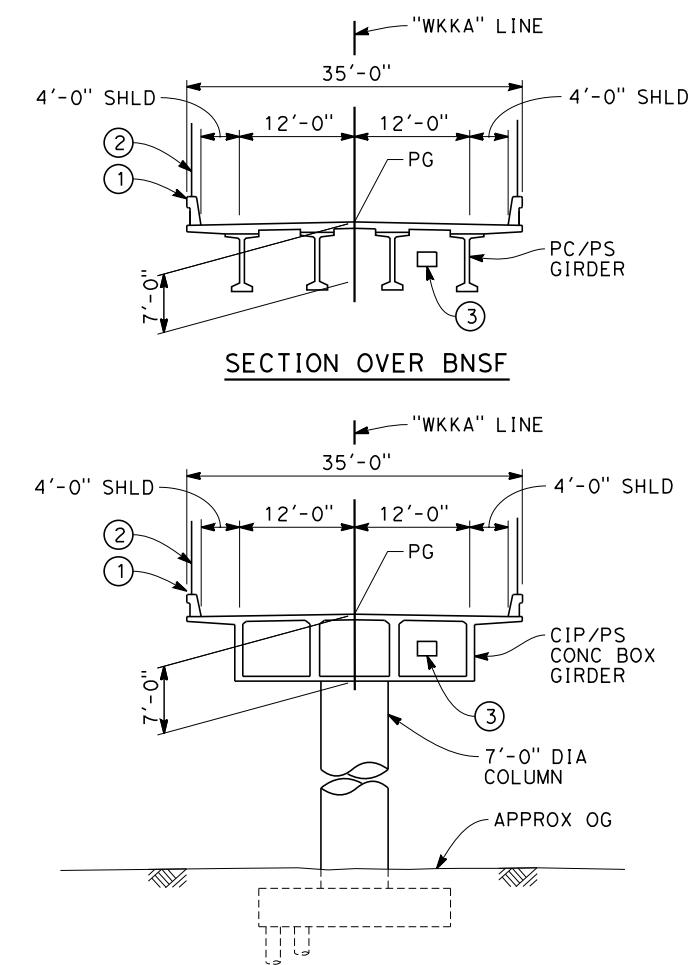
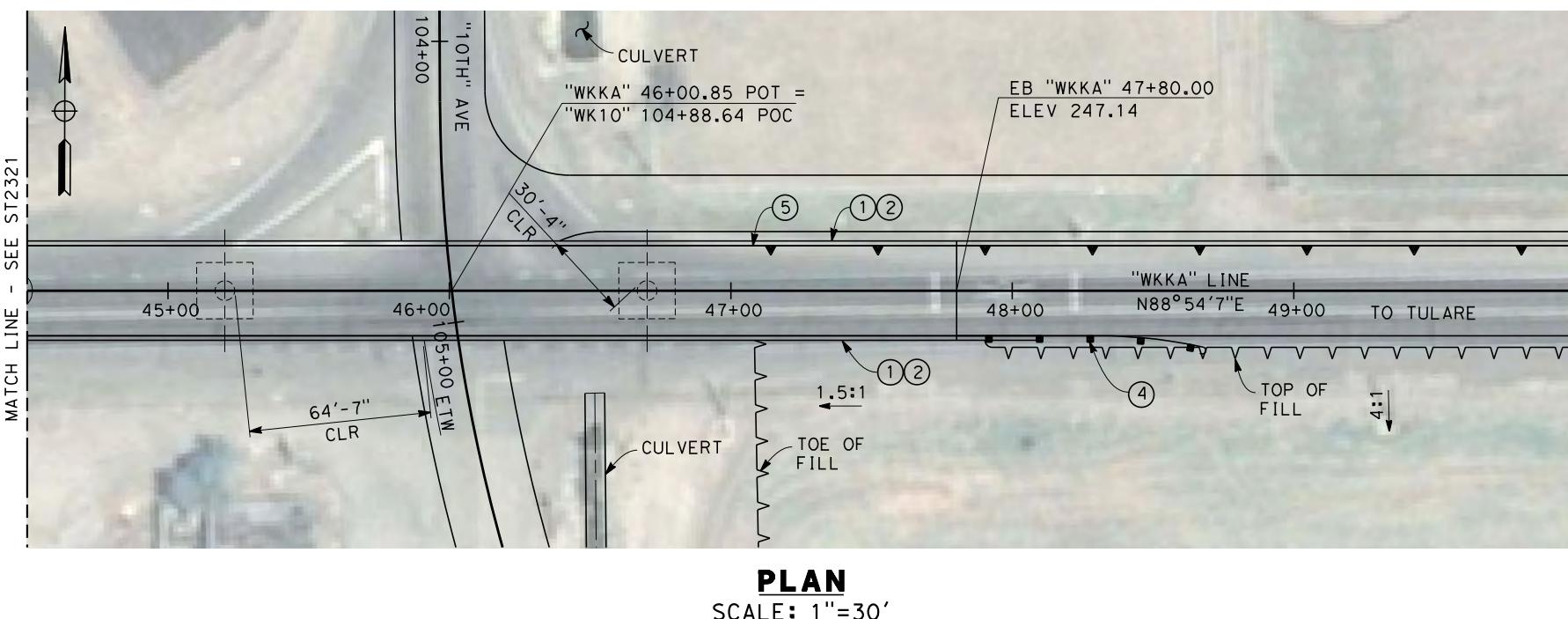
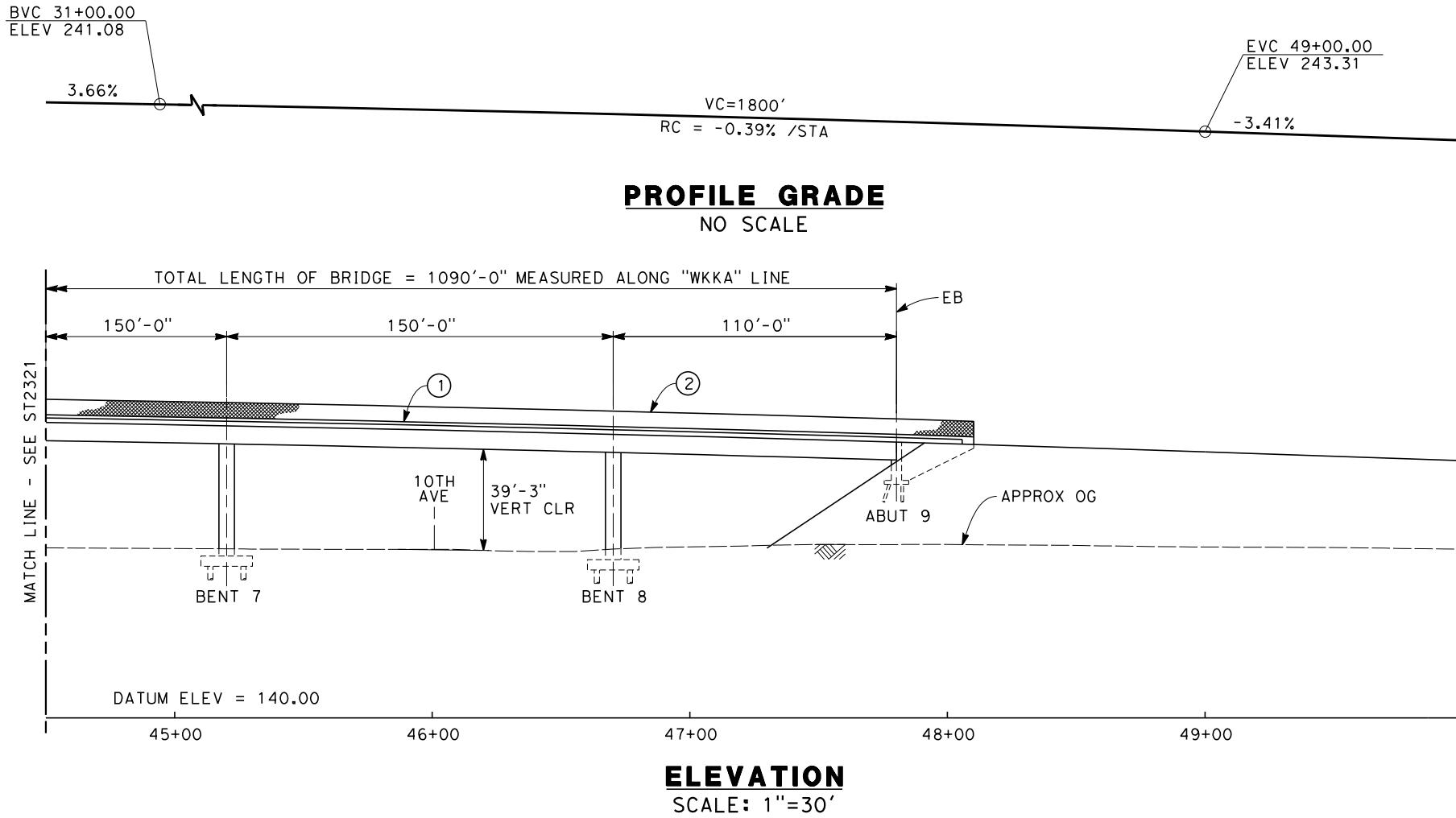
PLAN



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

KAWeah SUBSECTION
ALIGNMENT K1
OVERHEAD PLANNING STUDY
KANSAS AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2321
SCALE	AS SHOWN
SHEET NO.	3 OF 5



TYPICAL SECTION
SCALE: 1"=10'

NOTES:

- 1 ALL PILES NOT SHOWN
- 2 FOR MINIMUM VERTICAL CLEARANCE, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLAN.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR
- (5) RETAINING WALL

10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

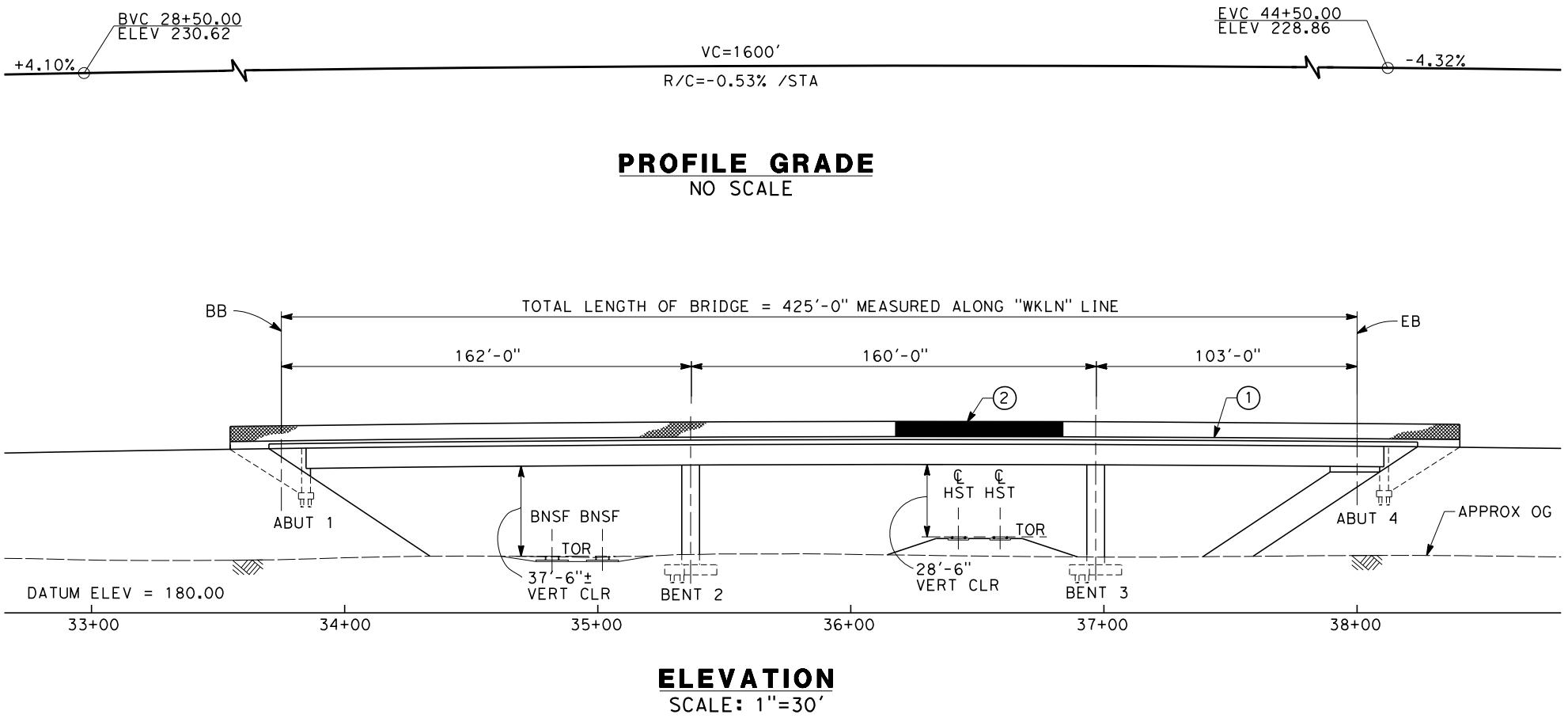
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. AMINI
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

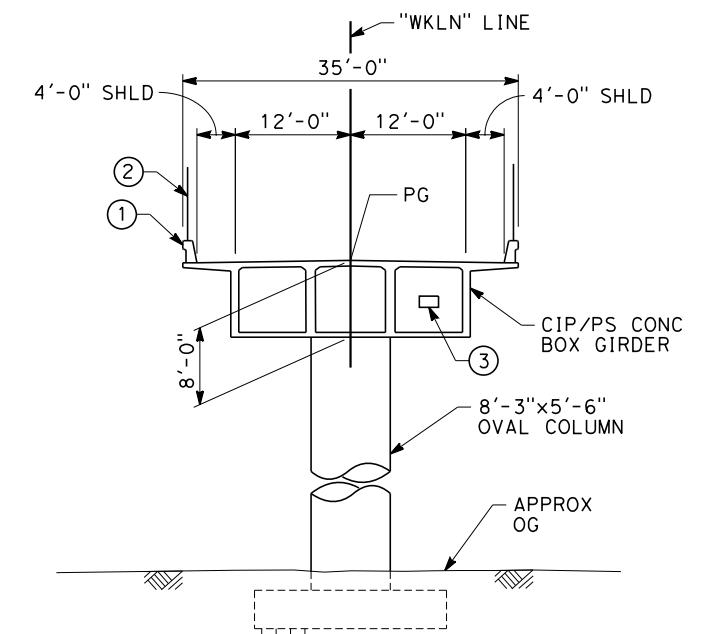
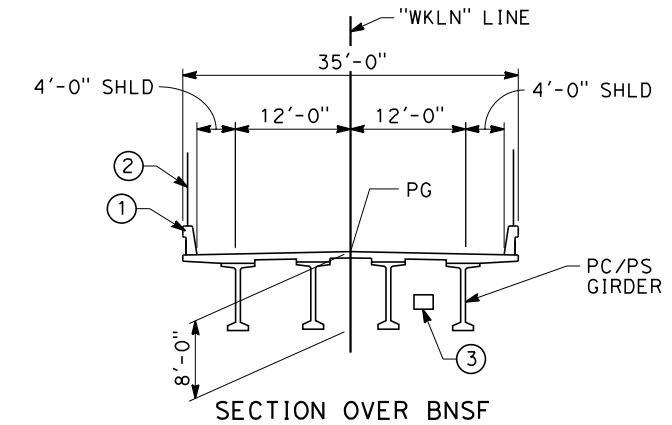
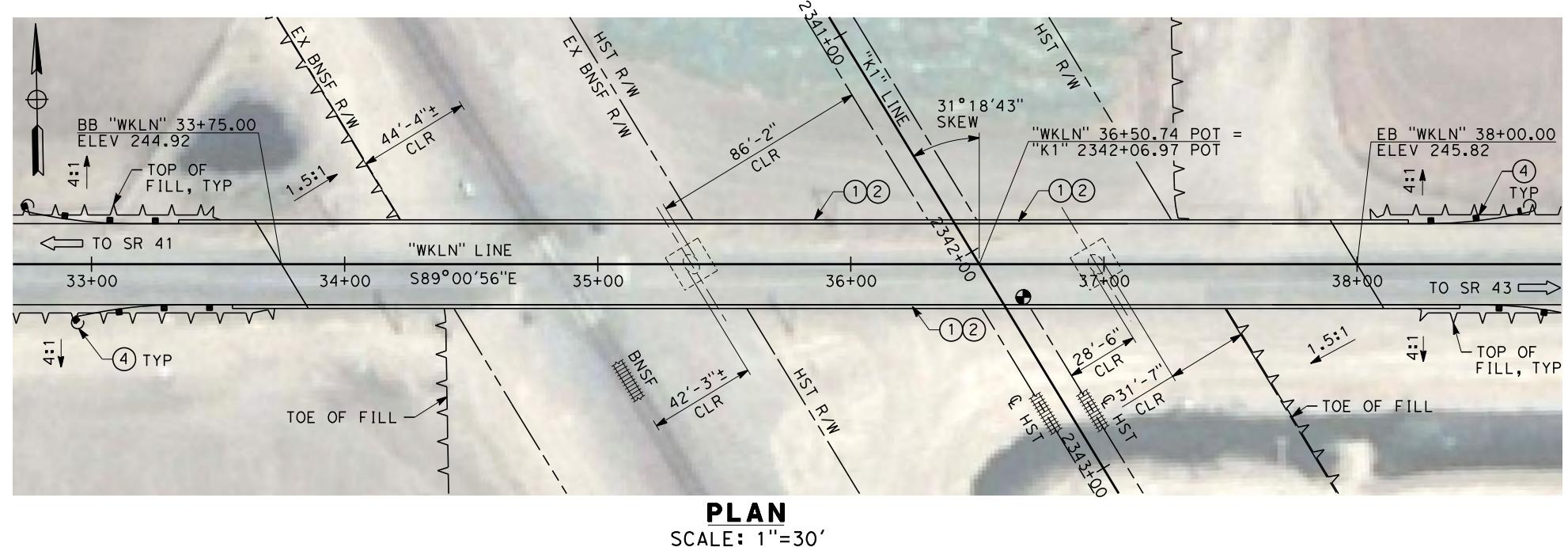


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K1
OVERHEAD PLANNING STUDY
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2322
SCALE
AS SHOWN
SHEET NO.
4 OF 5



ELEVATION
SCALE: 1"=30'



TYPICAL SECTIONS
SCALE: 1"=10'

NOTES:

- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

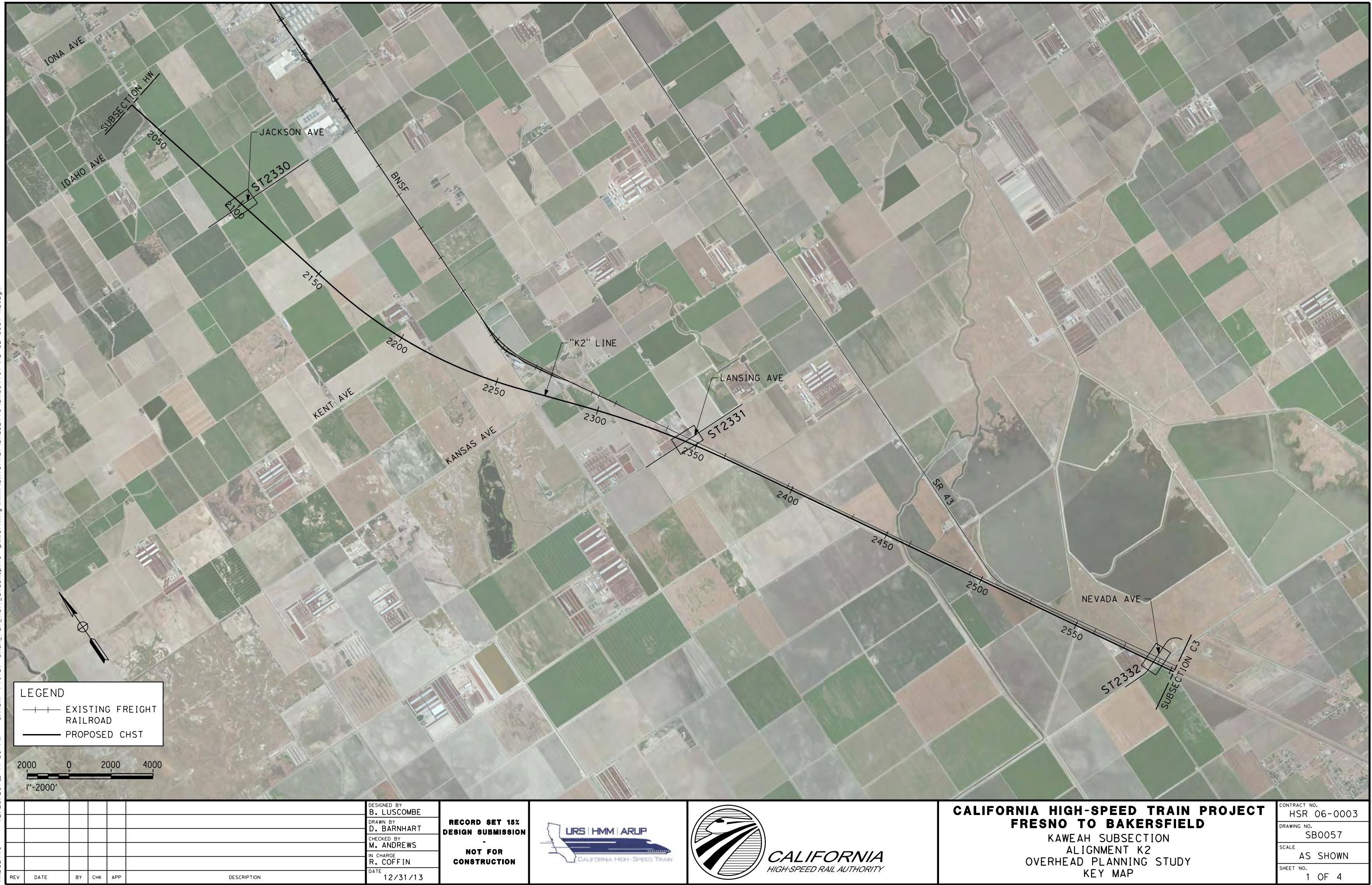
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
L. SMITH
IN CHARGE
R. COFFIN
DATE
12/31/13

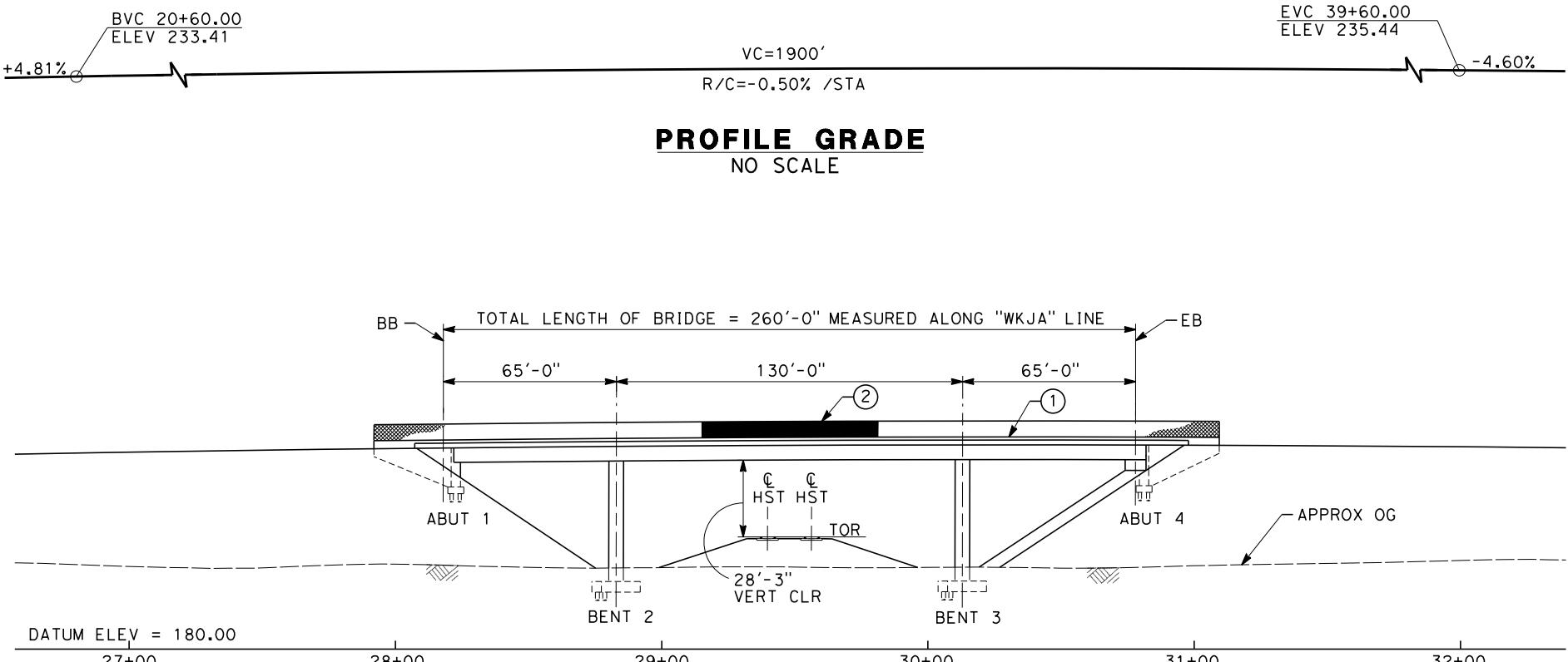
RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



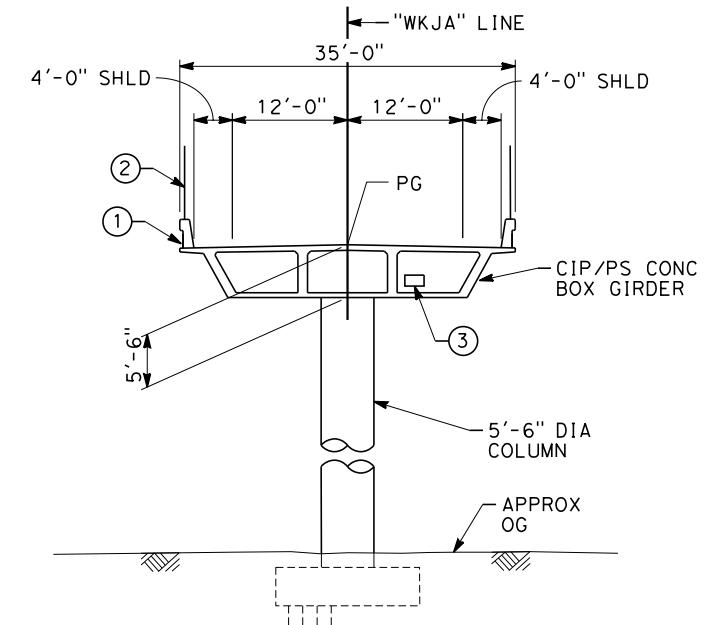
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K1
OVERHEAD PLANNING STUDY
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2323
SCALE
AS SHOWN
SHEET NO.
5 OF 5

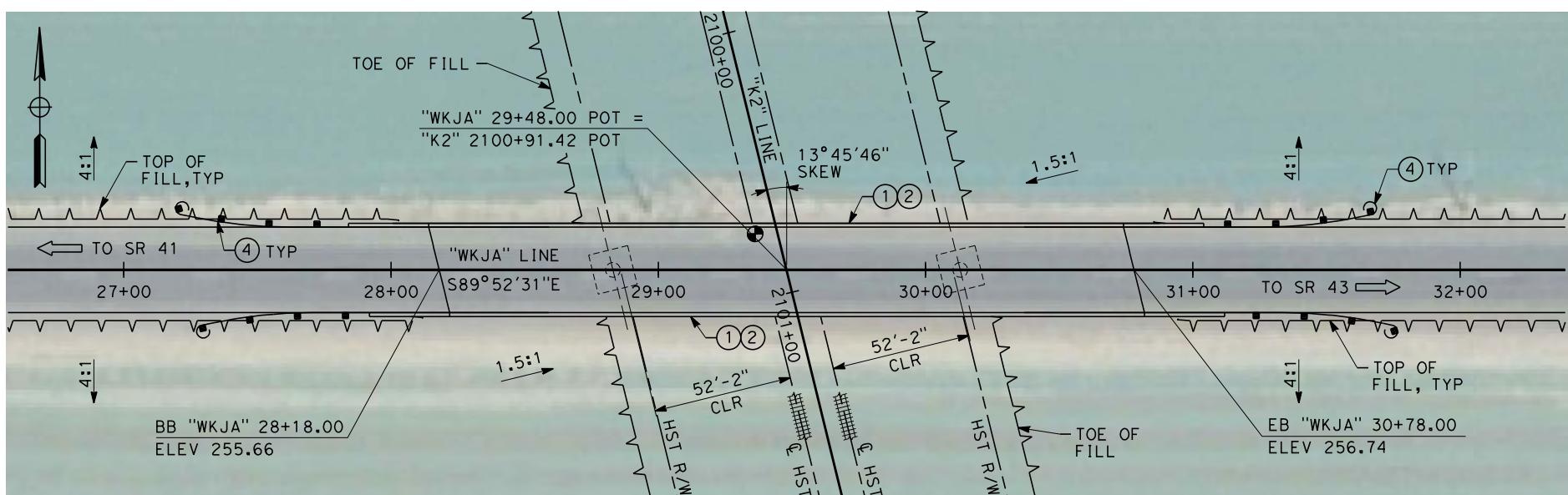




ELEVATION
SCALE: 1"=30'



TYPICAL SECTION
SCALE: 1"=10'



PLAN
SCALE: 1"=30'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASING OPENING
- (4) MBGR

10 0 10 20
I"=10'
30 0 30 60
I"=30'

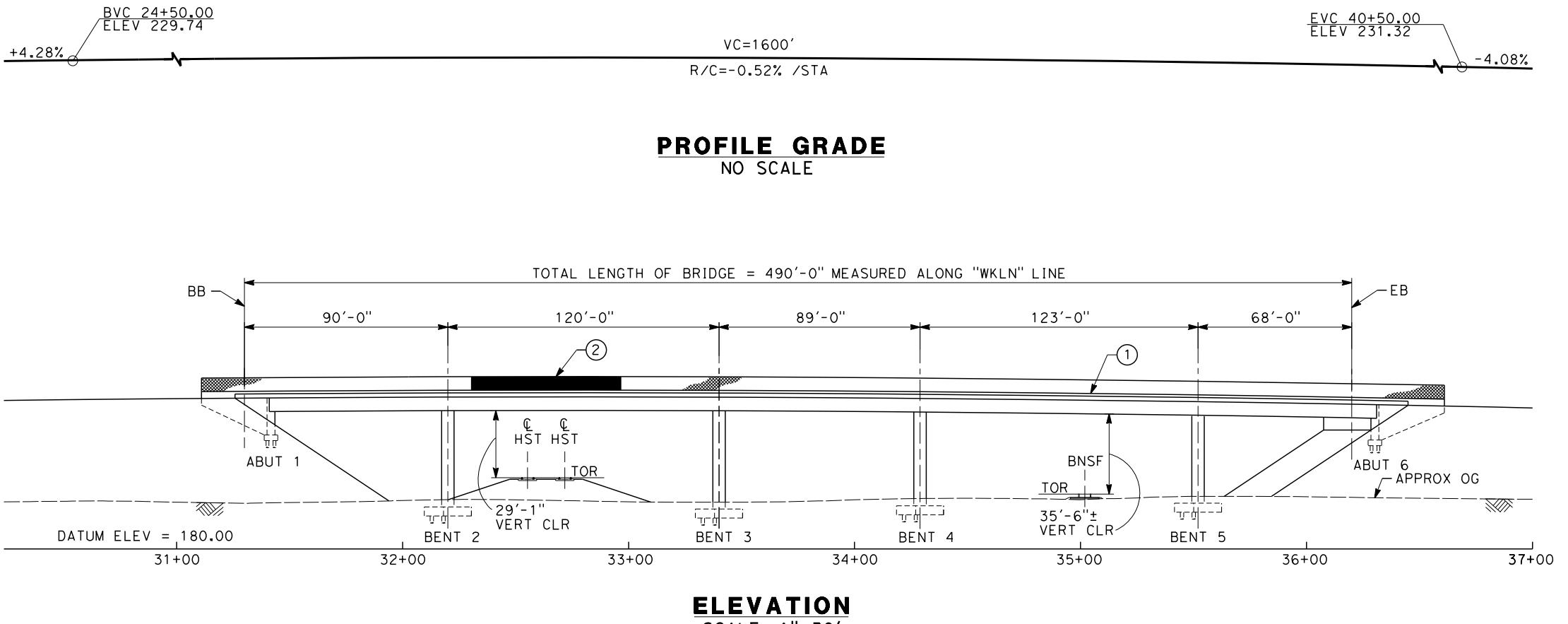
				DESIGNED BY B. LUSCOMBE
				DRAWN BY D. BARNHART
				CHECKED BY M. ANDREWS
				IN CHARGE R. COFFIN
				DATE 12/31/13
REV	DATE	BY	CHK	APP
				DESCRIPTION

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

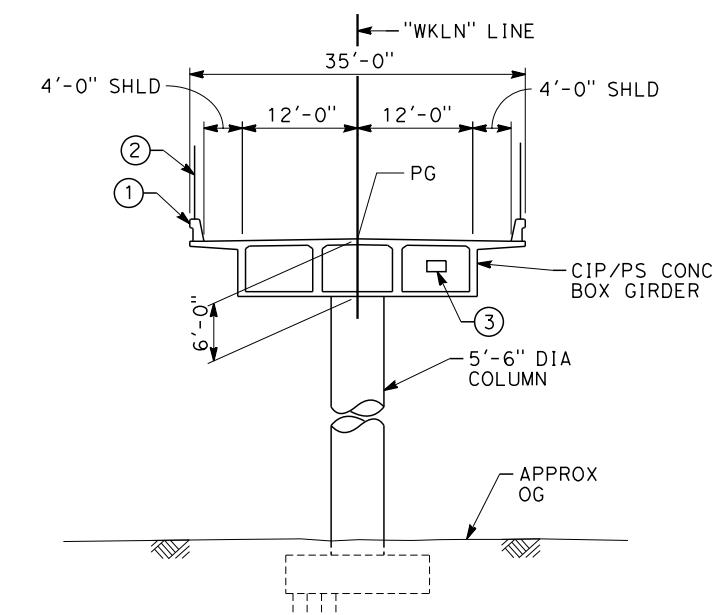
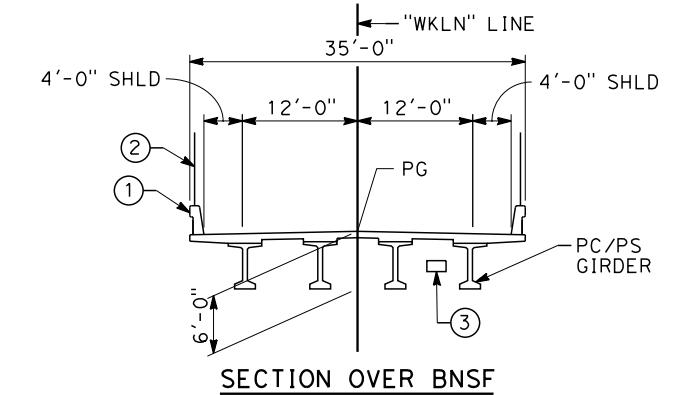
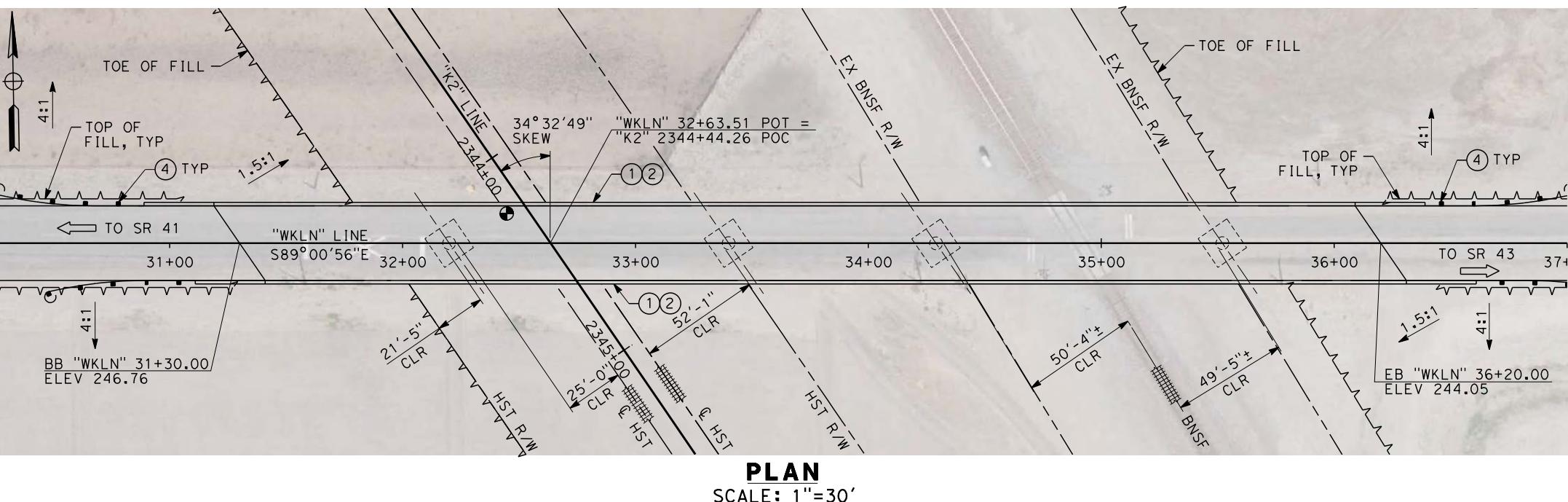


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K2
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2330
SCALE
AS SHOWN
SHEET NO.
2 OF 4



ELEVATION
SCALE: 1"=30'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

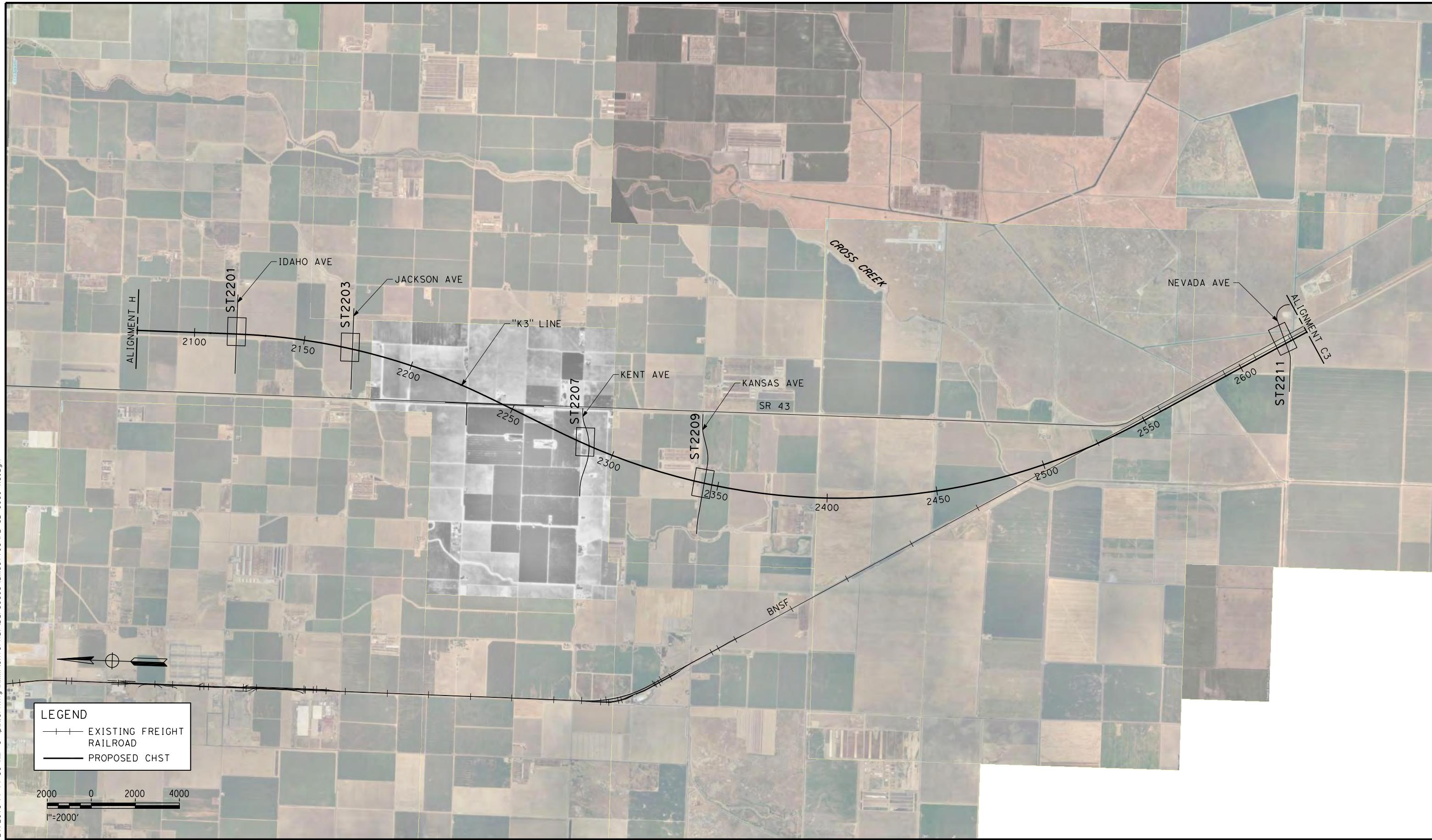
DESIGNED BY
B. LUSCOMBE
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

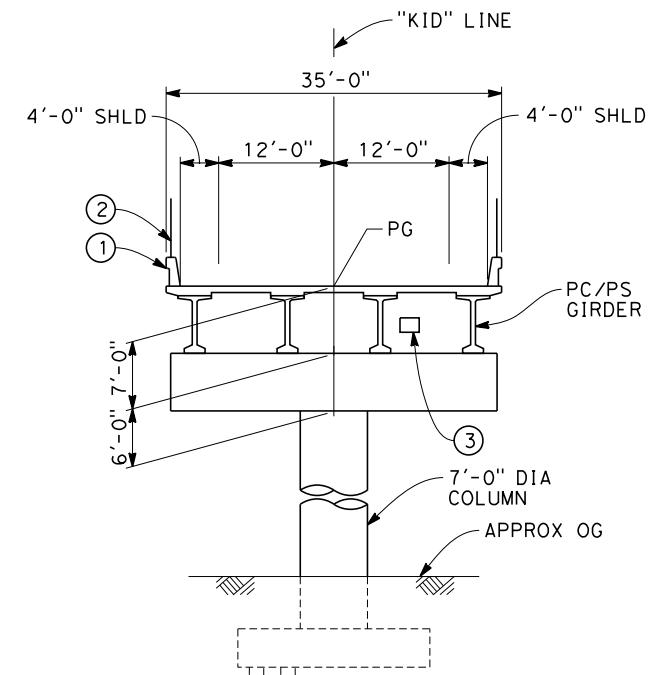
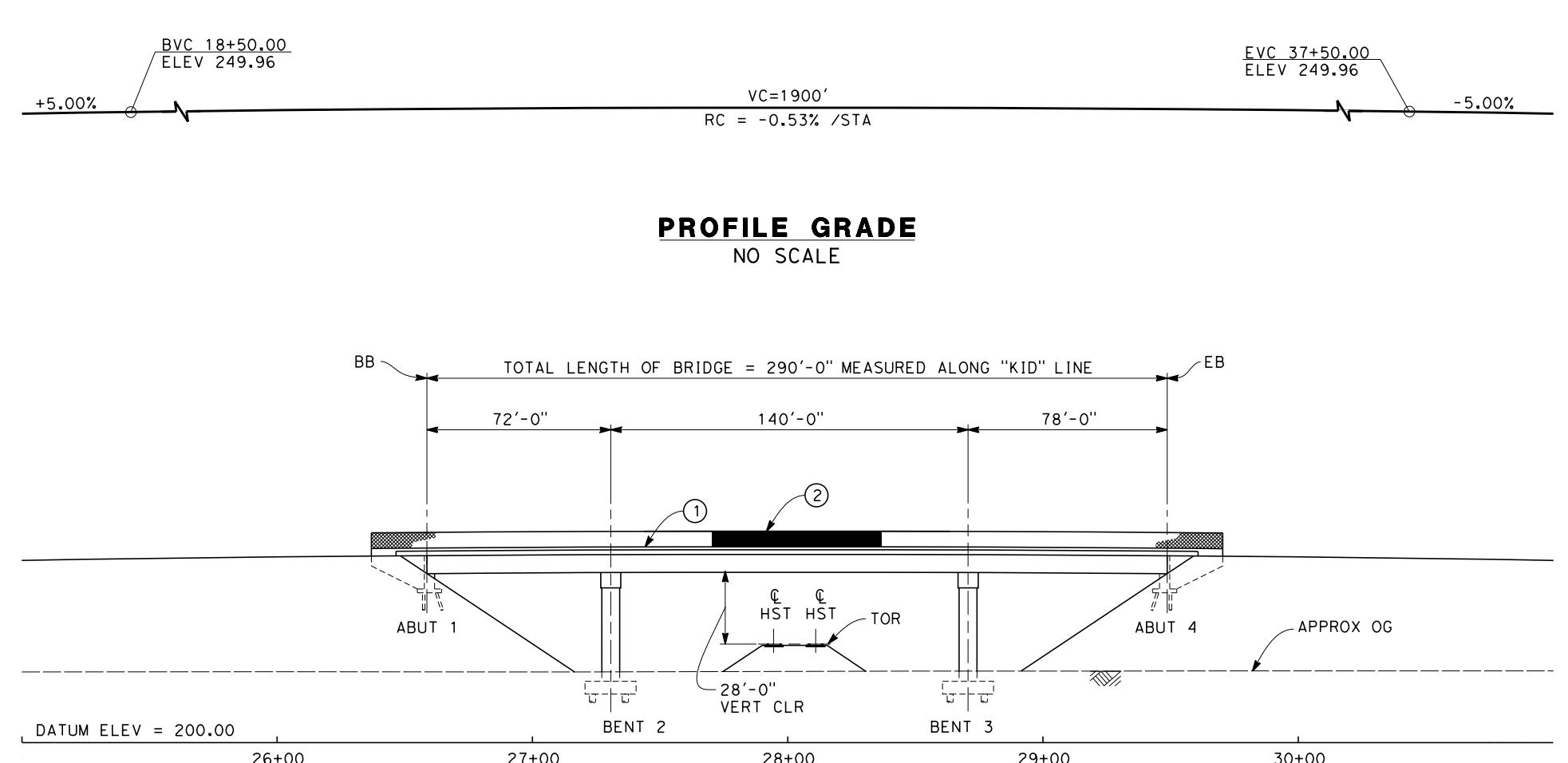


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K2
OVERHEAD PLANNING STUDY
LANSING AVE

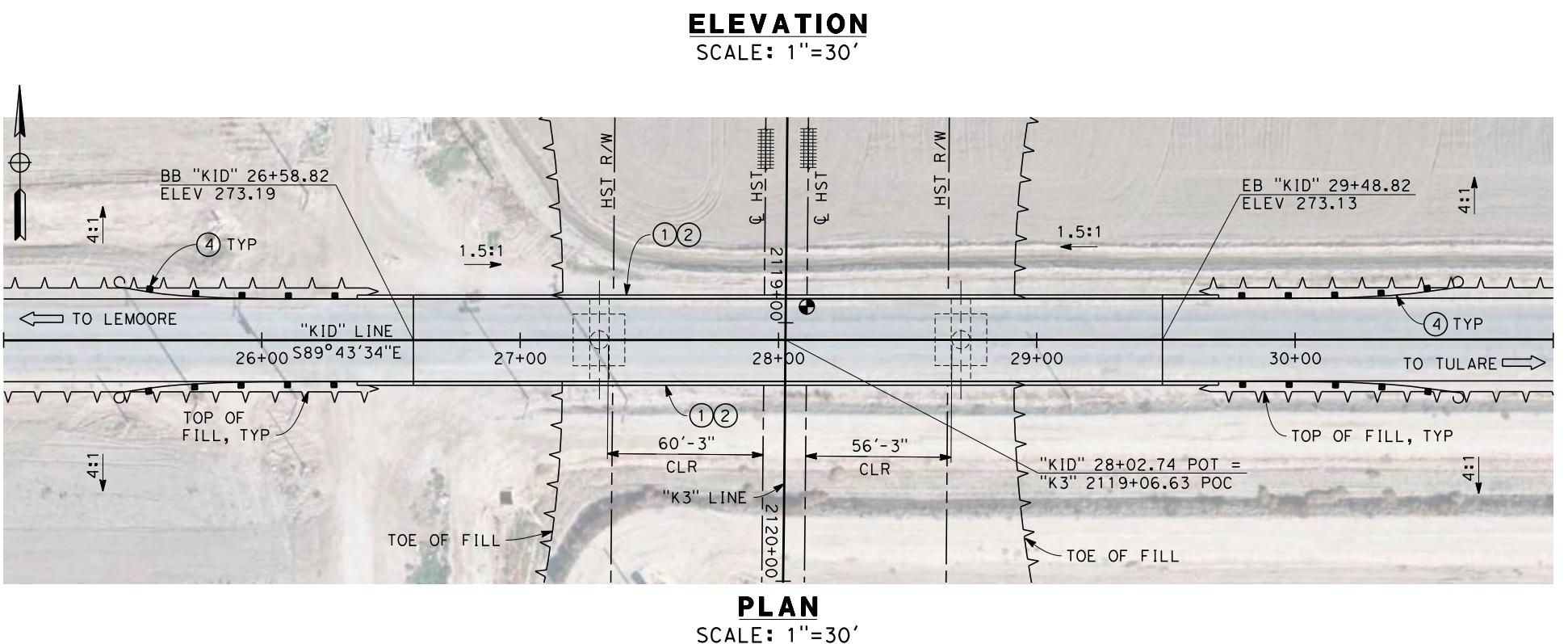
CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2331
SCALE
AS SHOWN
SHEET NO.
3 OF 4



DESIGNED BY E. MORAN	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-			KAWeah SUBSECTION	DRAWING NO. SB0060
CHECKED BY M. ANDREWS	NOT FOR CONSTRUCTION			ALIGNMENT K3	SCALE
IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED TRAIN		OVERHEAD PLANNING STUDY	AS SHOWN
DATE 12/31/13				KEY MAP	SHEET NO. 1 OF 6
REV	DATE	BY	CHK	APP	DESCRIPTION



TYPICAL SECTION
SCALE 1'=10'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

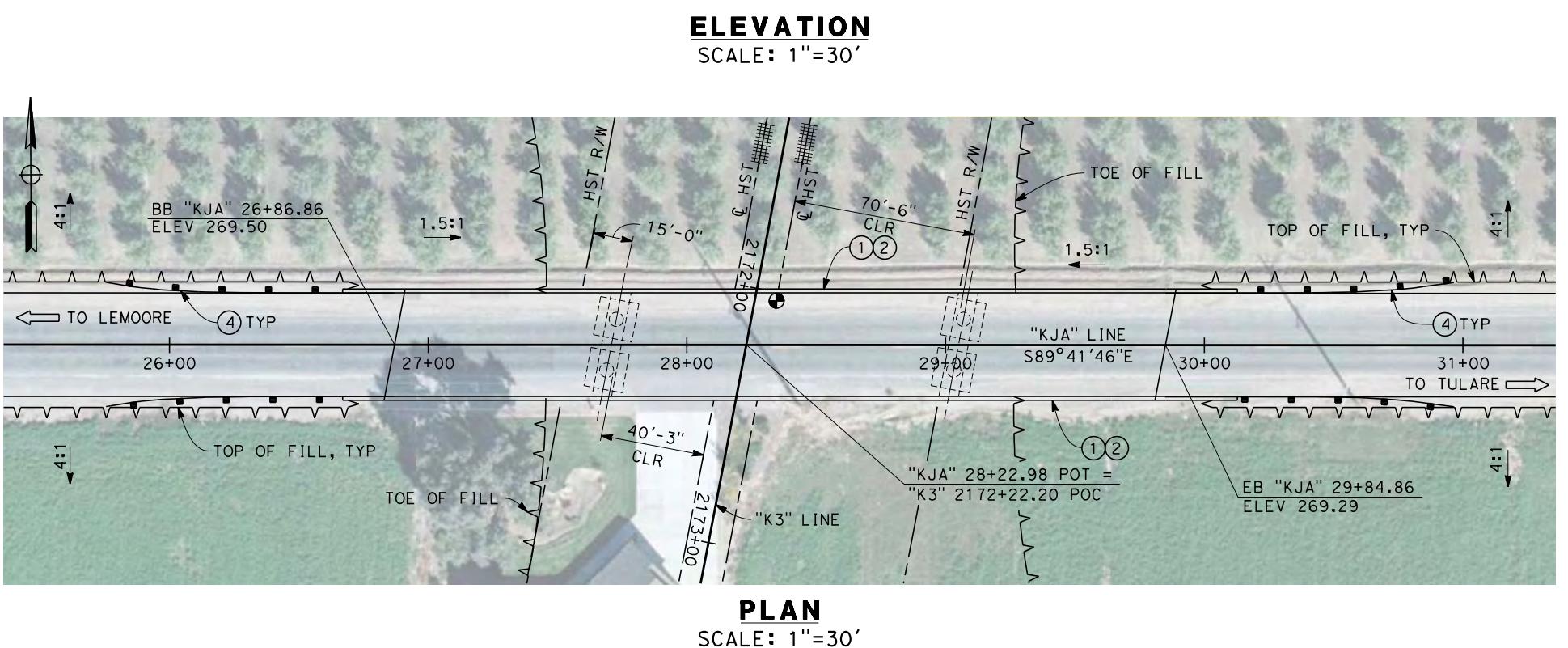
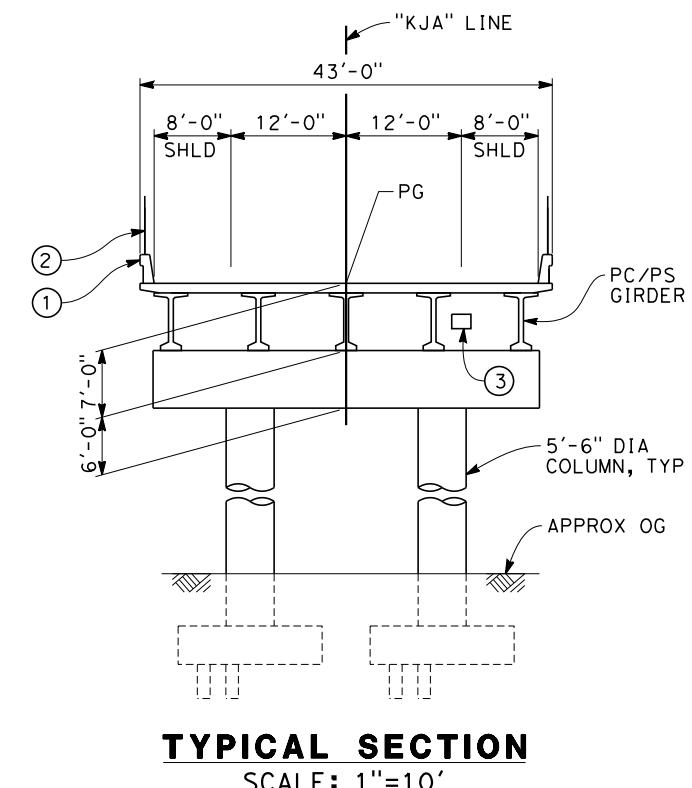
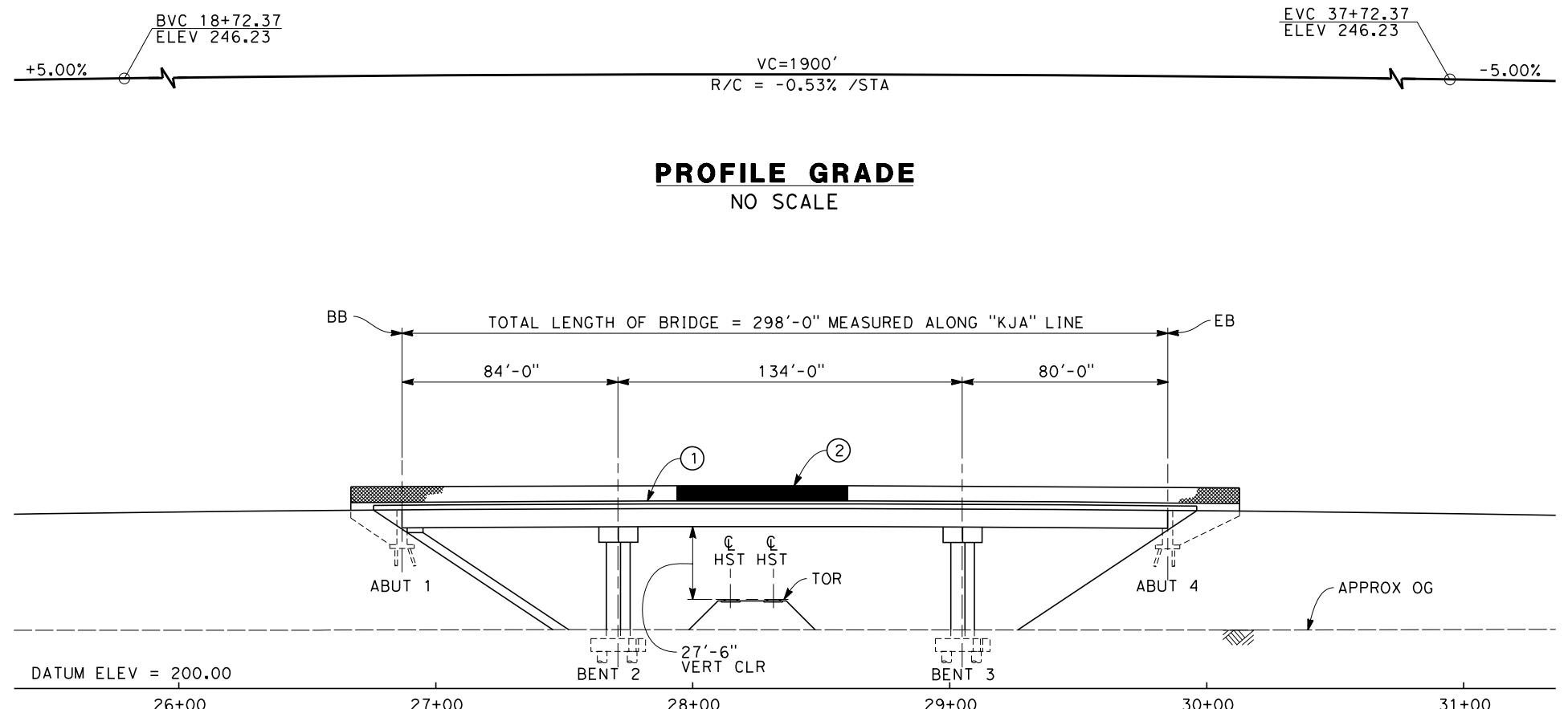
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

12/27/2013 10:32:16 AM c:\pwworking\humm\external\pro39009\ams91108\FB-ST-2201-K3.dgn

				DESIGNED BY E. MORAN	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
				DRAWN BY D. BARNHART	-			KAWeah SUBSECTION ALIGNMENT K3 OVERHEAD PLANNING STUDY IDAHO AVE	DRAWING NO. ST2201
				CHECKED BY M. ANDREWS	NOT FOR CONSTRUCTION				SCALE AS SHOWN
				IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED TRAIN			SHEET NO. 2 OF 6
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE	12/31/13		

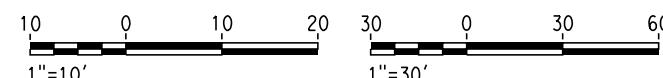


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

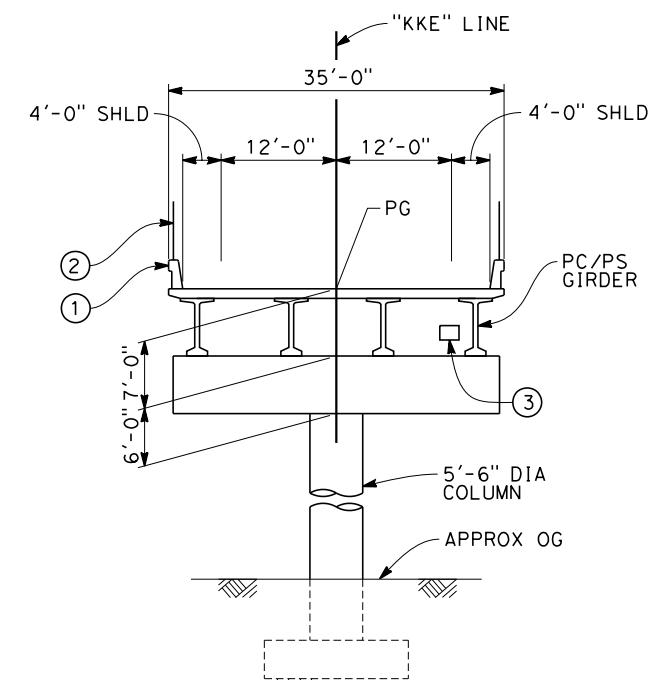
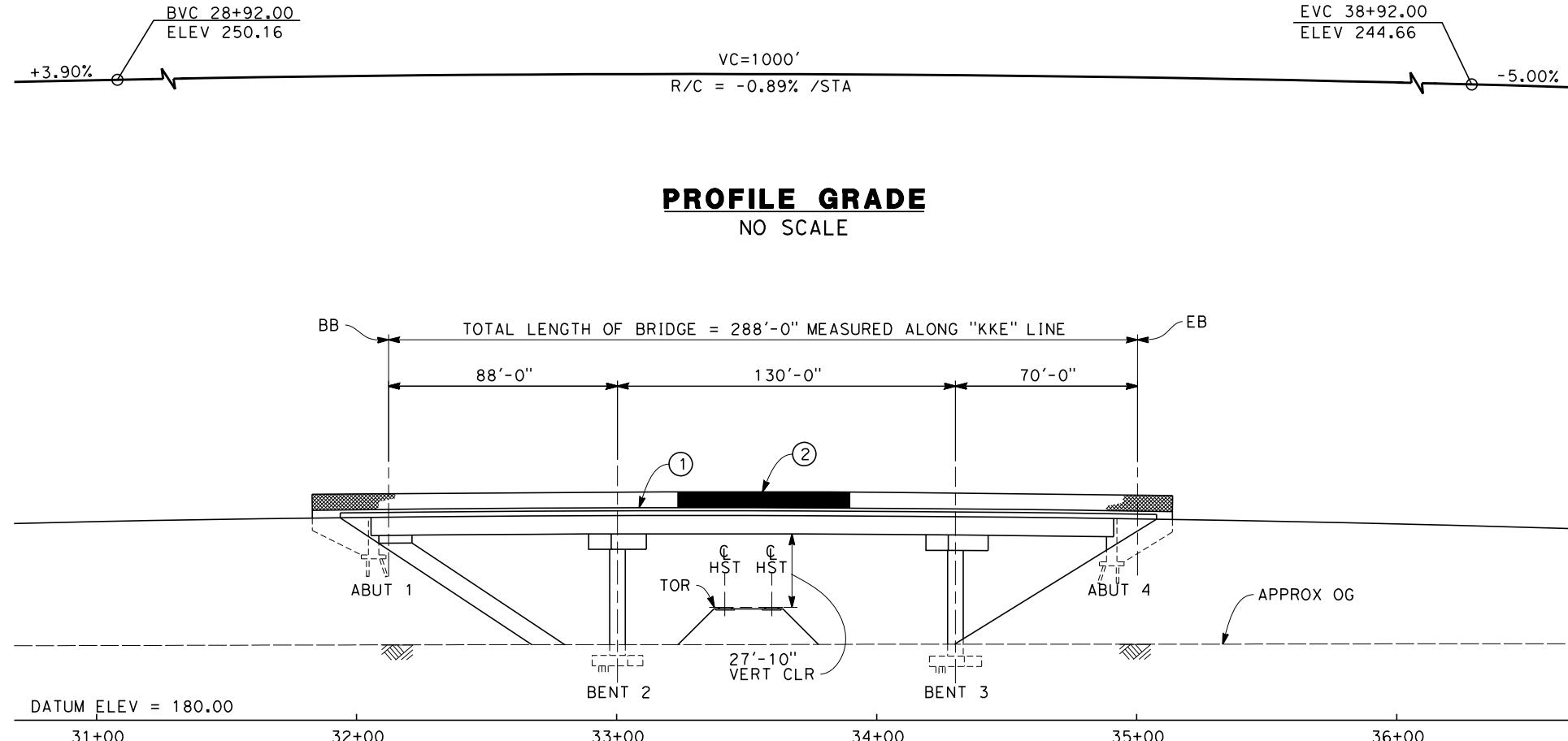
DESIGNED BY
E. MORAN
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

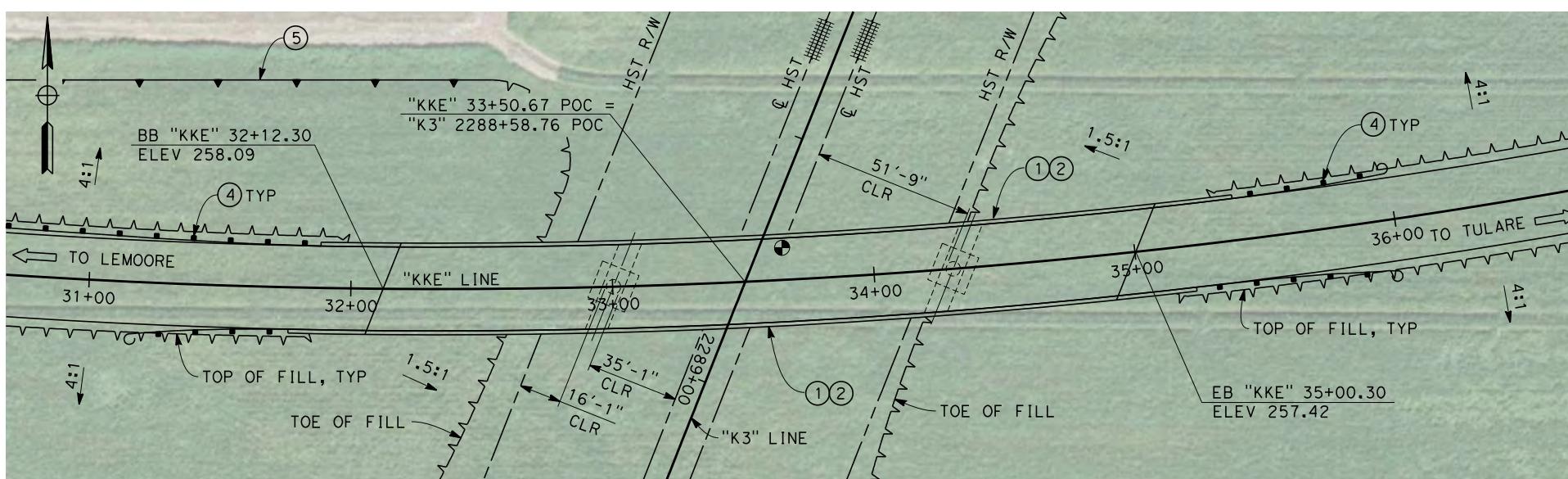


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K3
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2203
SCALE
AS SHOWN
SHEET NO.
3 OF 6



TYPICAL SECTION
SCALE: 1"=10'

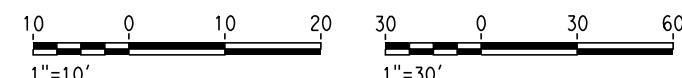


PLAN
SCALE: 1"=30'

NOTES:
 1. ALL PILES NOT SHOWN
 2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL

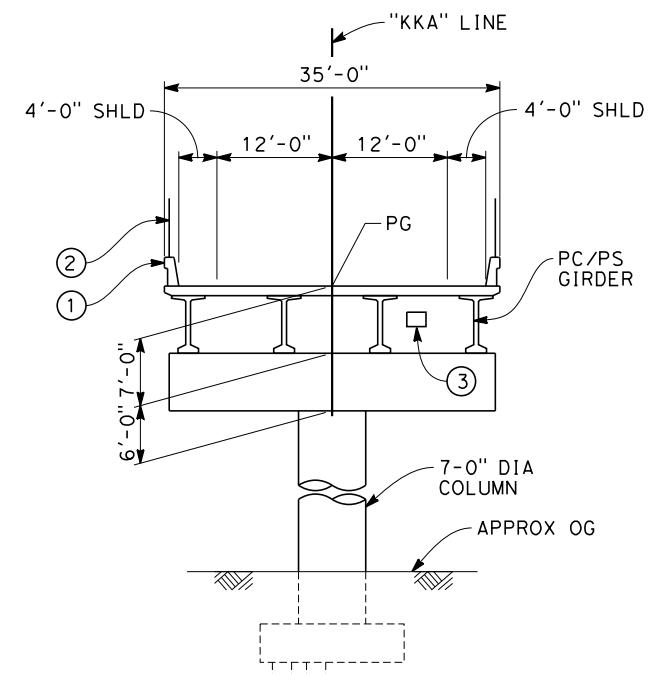
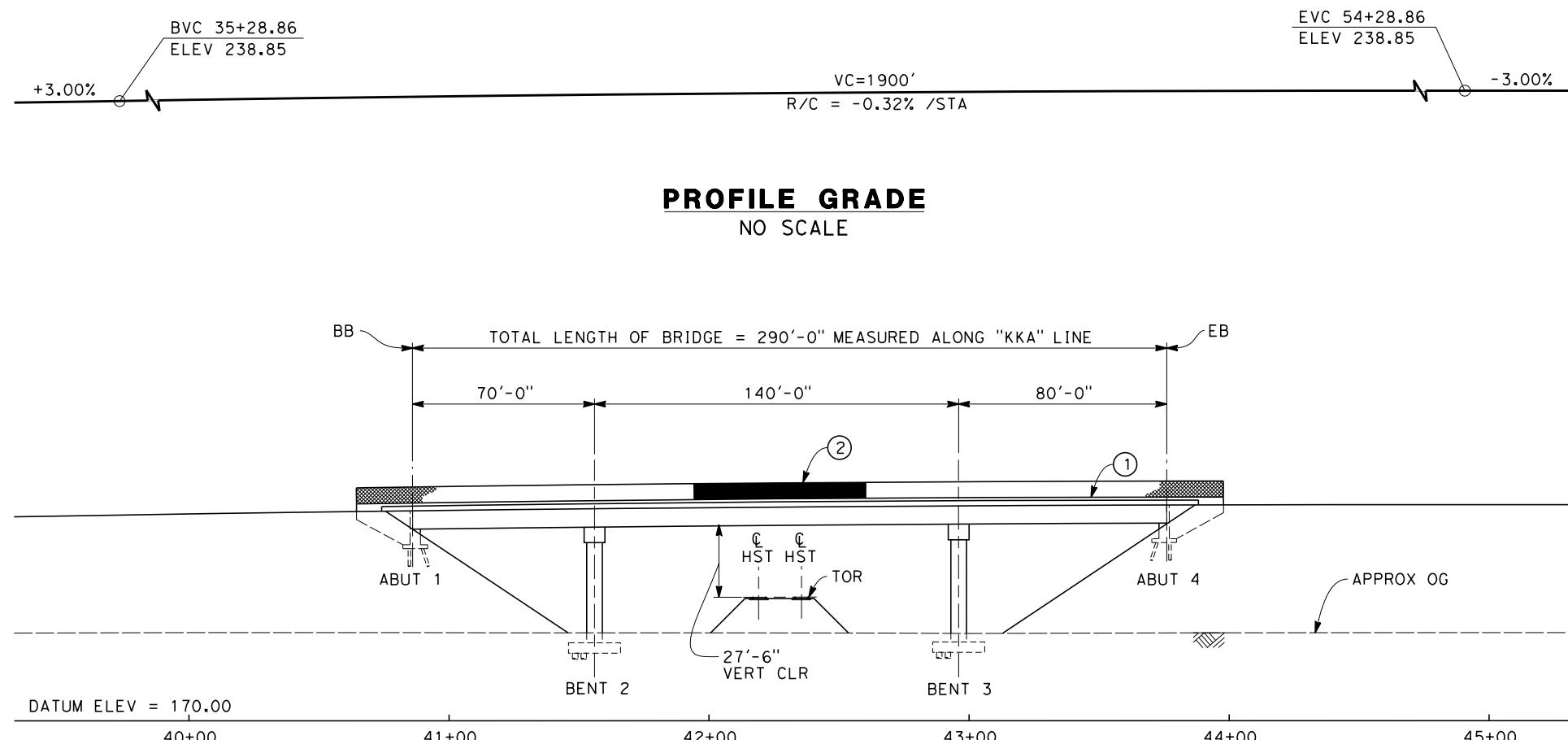


REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY E. MORAN	DRAWN BY D. BARNHART	CHECKED BY M. ANDRVERS	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	DATE 12/31/13	

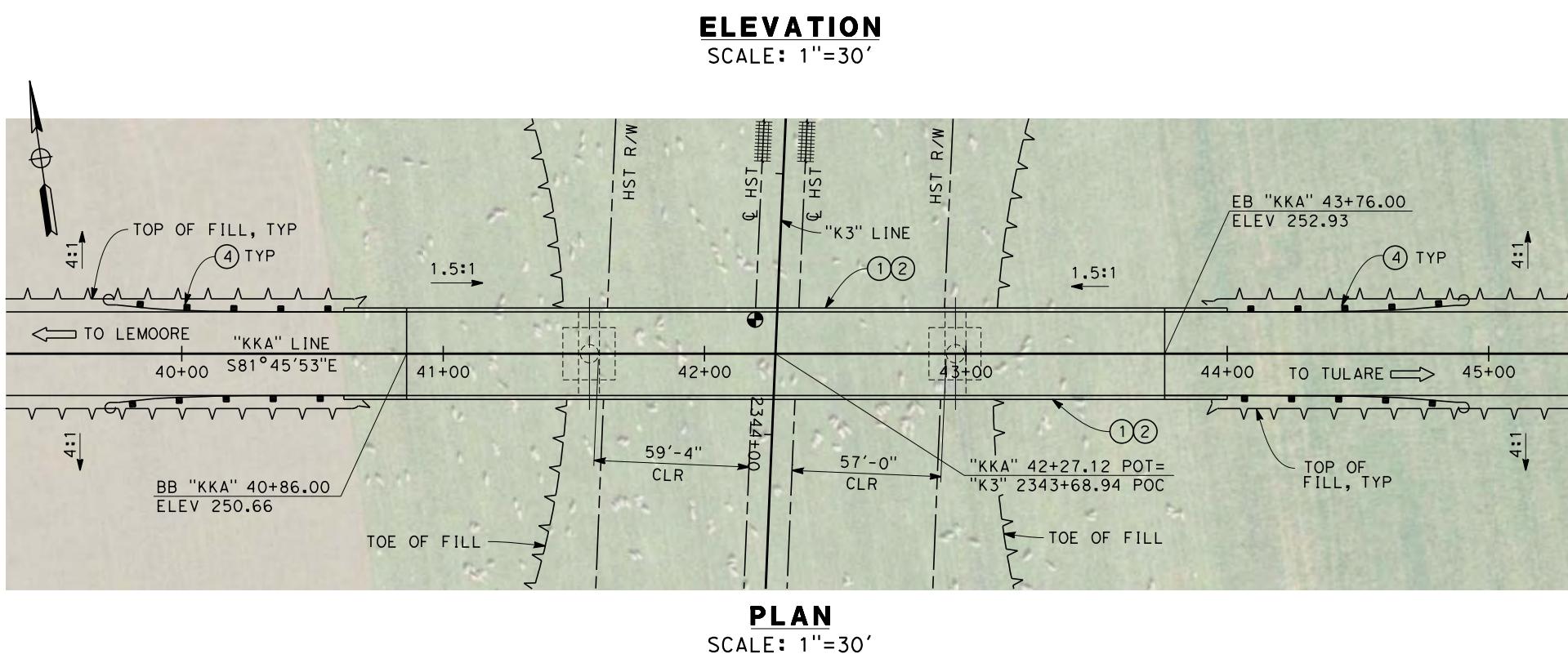


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K3
OVERHEAD PLANNING STUDY
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2207
SCALE
AS SHOWN
SHEET NO.
4 OF 6



TYPICAL SECTION
SCALE: 1"=10'



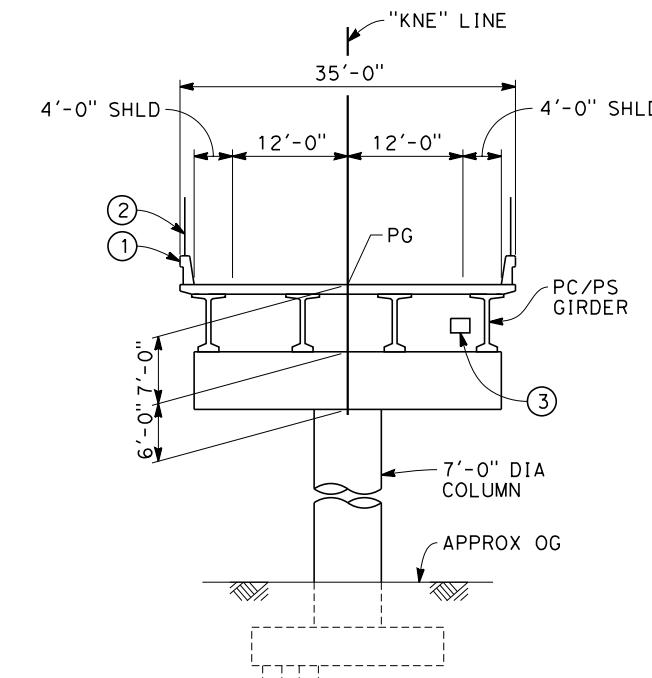
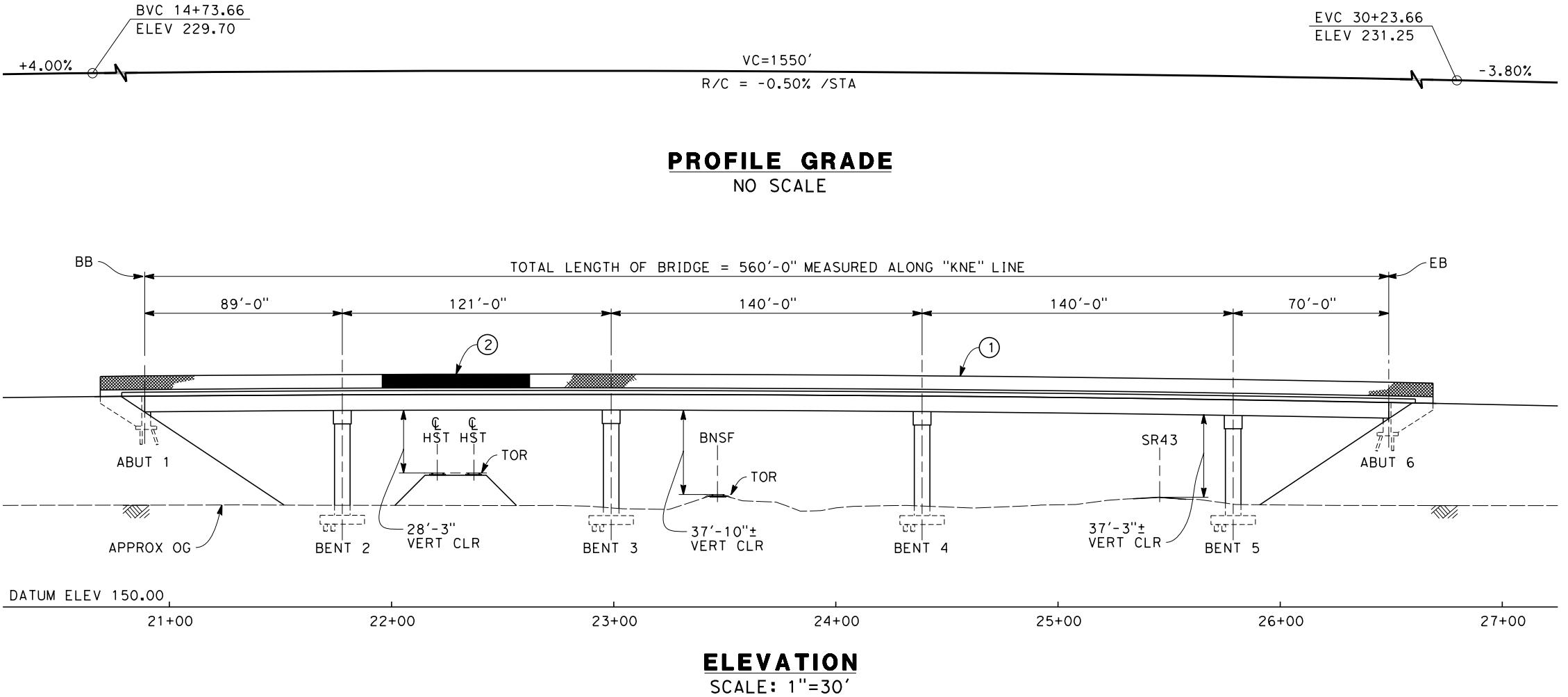
NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

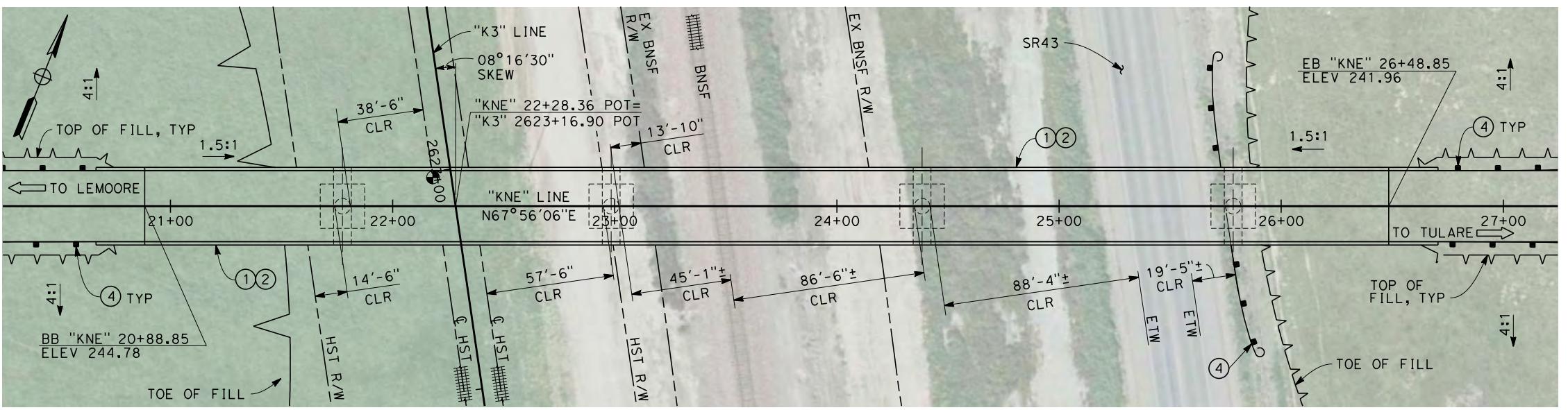
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'



TYPICAL SECTION
SCALE: 1"=10'



NOTES:
 1. ALL PILES NOT SHOWN
 2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
1"=10' 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY
E. MORAN
DRAWN BY
D. BARNHART
CHECKED BY
M. ANDREWS
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION

-
NOT FOR
CONSTRUCTION

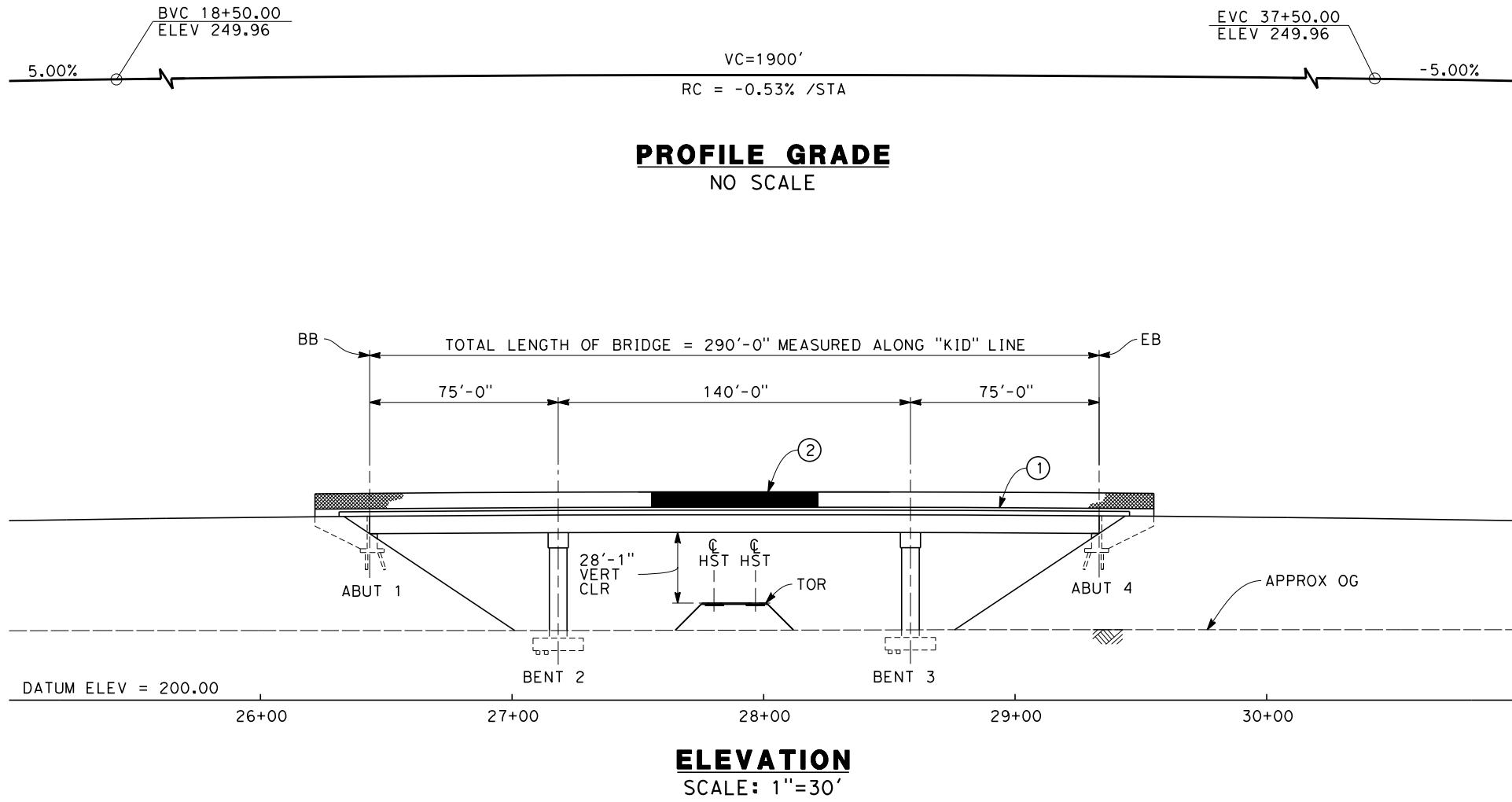


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K3
OVERHEAD PLANNING STUDY
NEVADA AVE

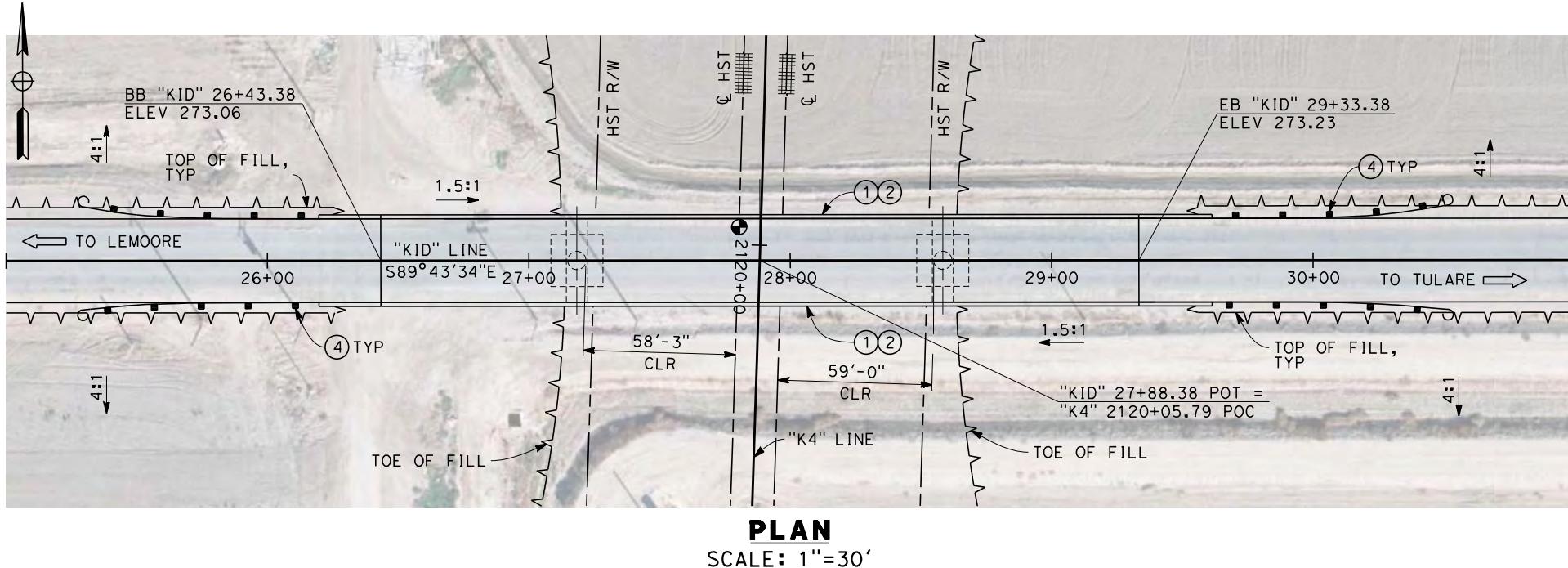
CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2211
SCALE
AS SHOWN
SHEET NO.
6 OF 6



DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-			KAWeah SUBSECTION	DRAWING NO. SB0065
CHECKED BY M. AMINI	NOT FOR CONSTRUCTION			ALIGNMENT K4	SCALE
IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED TRAIN		OVERHEAD PLANNING STUDY	AS SHOWN
DATE 12/31/13				KEY MAP	SHEET NO. 1 OF 5
REV	DATE	BY	CHK	APP	DESCRIPTION



ELEVATION
SCALE: 1"=30'

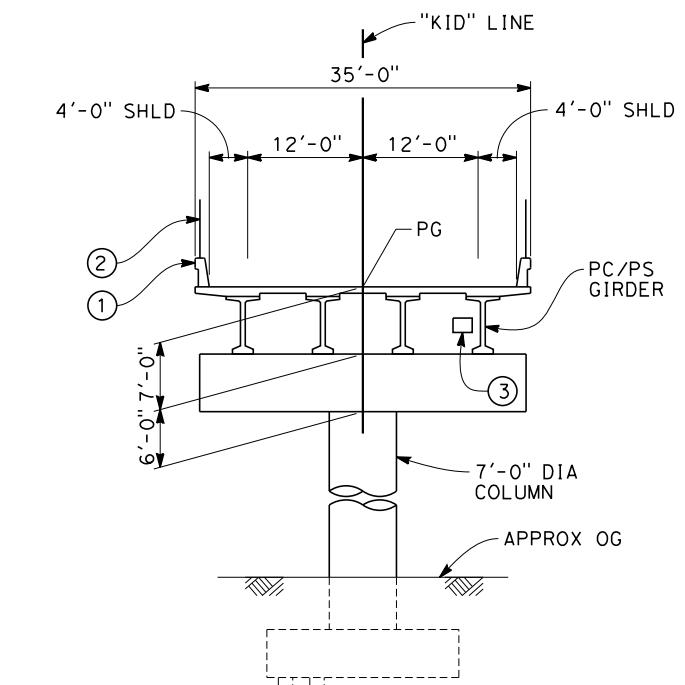


PLAN
SCALE: 1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY
L. SMITH
DRAWN BY
D. BARNHART
CHECKED BY
M. AMINI
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



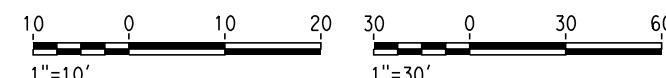
TYPICAL SECTION
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

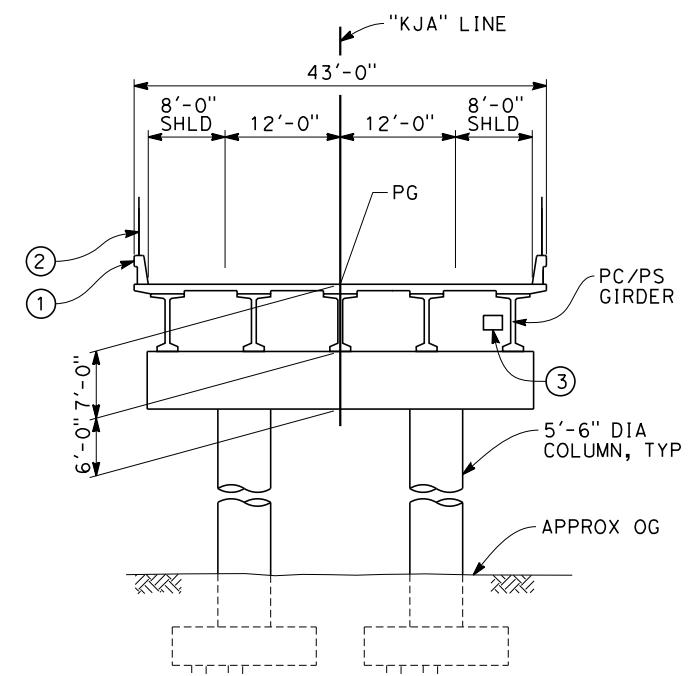
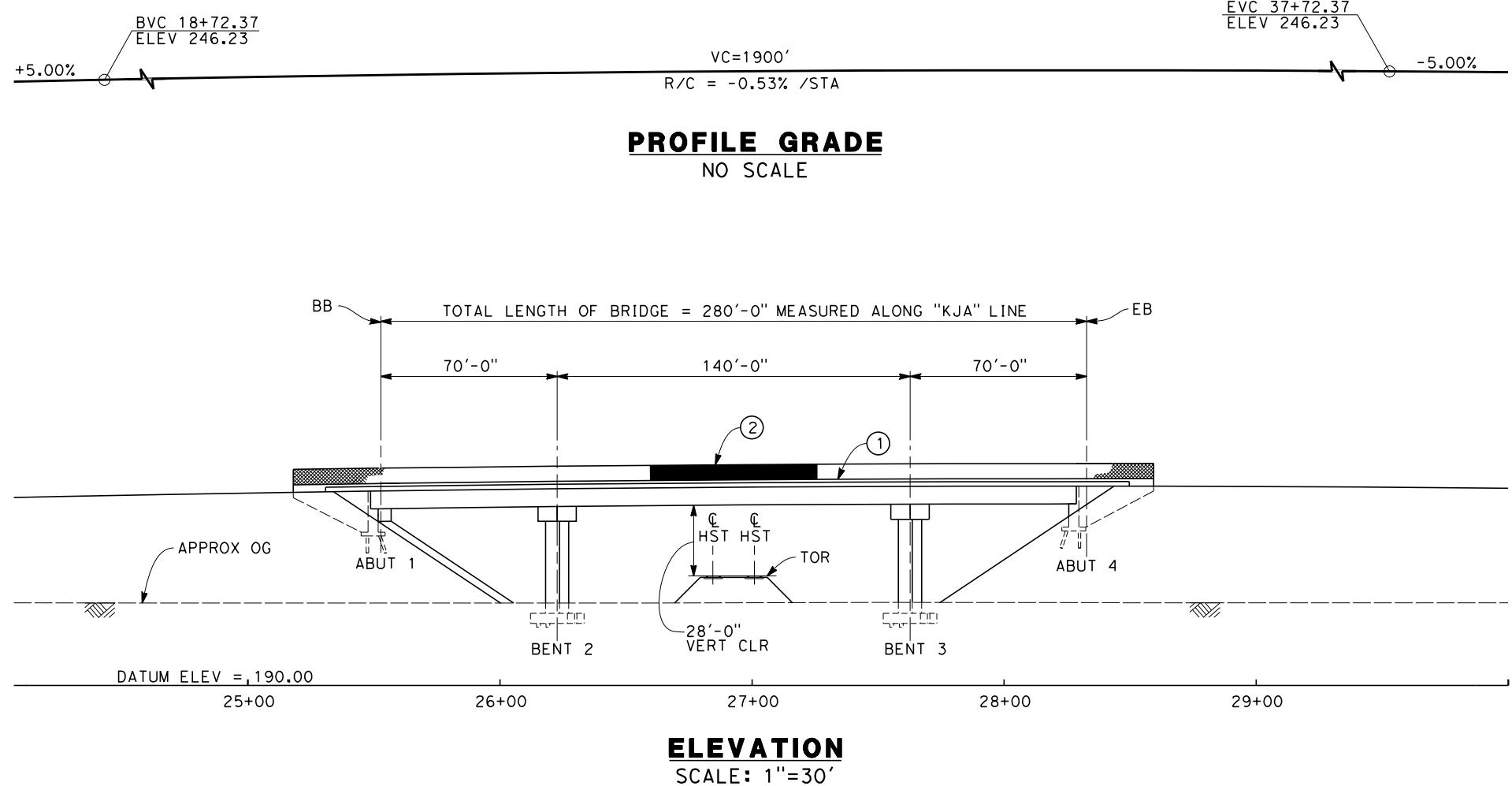
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

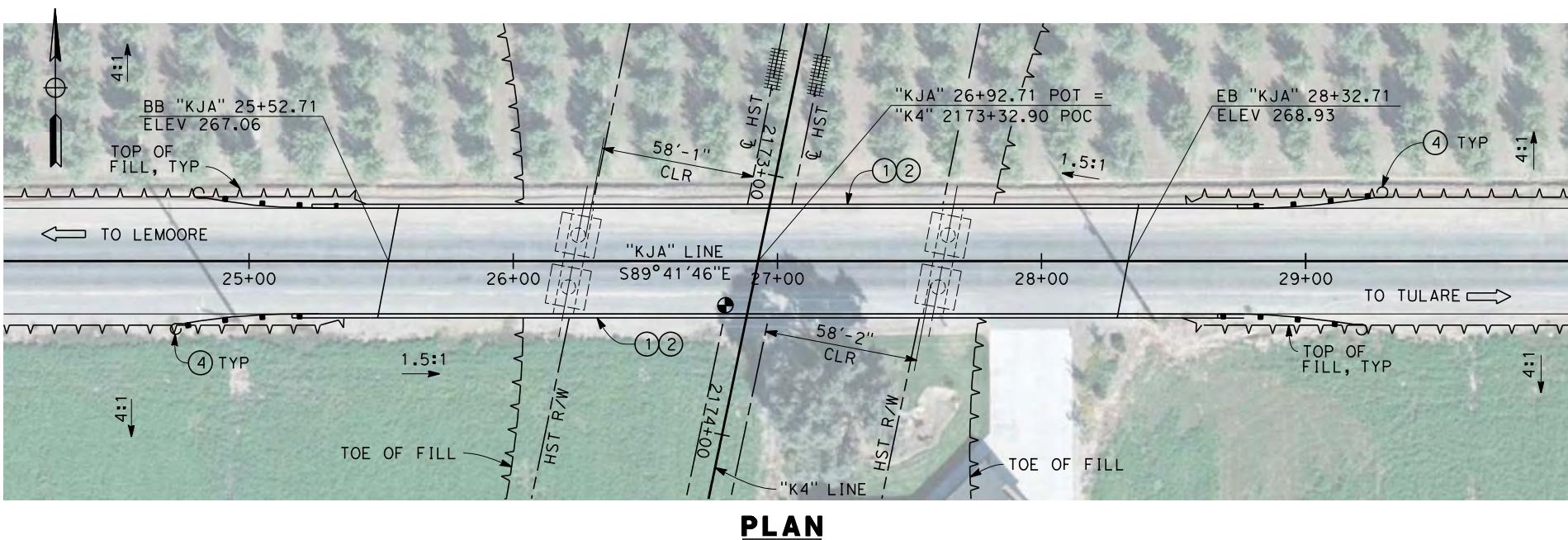


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
IDAHO AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2220
SCALE
AS SHOWN
SHEET NO.
2 OF 5



TYPICAL SECTION
SCALE: 1"=10'



NOTES:

- ALL PILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

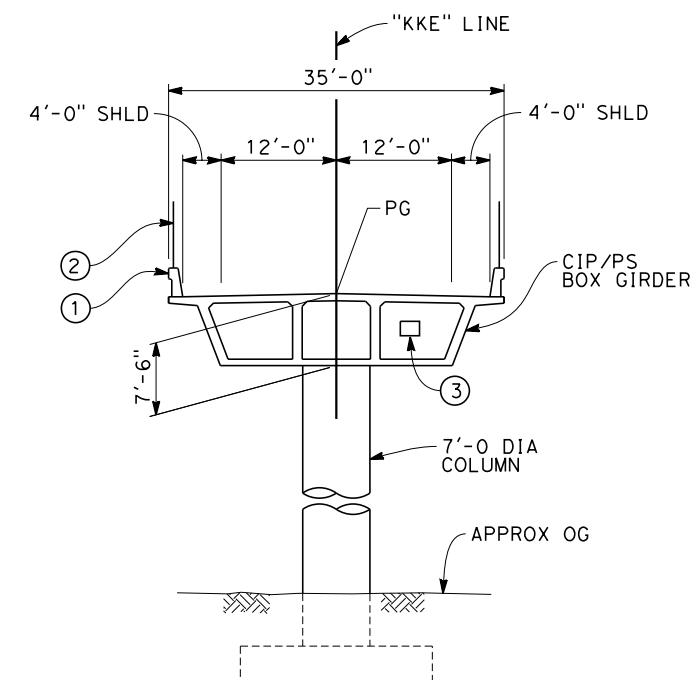
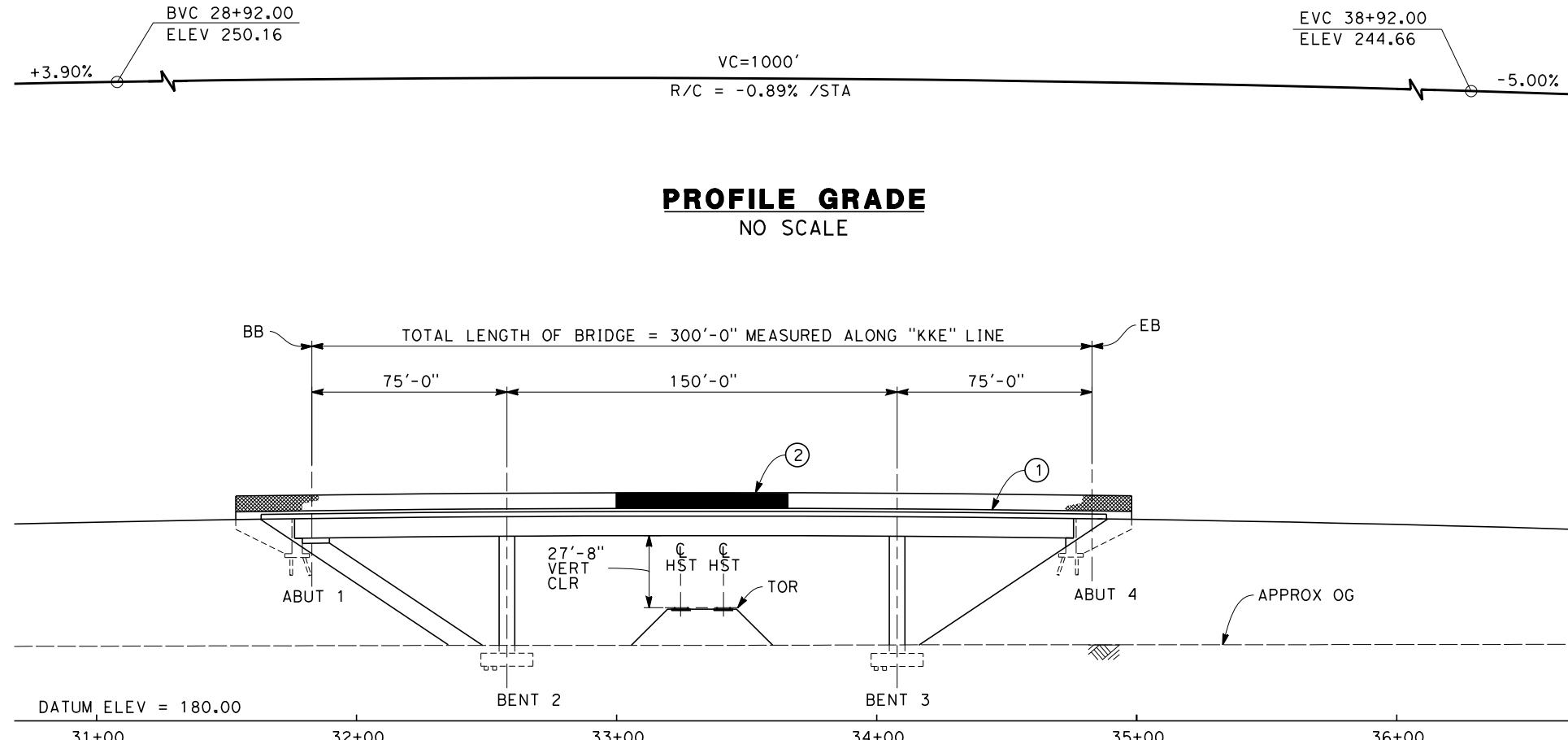
10 0 10 20
1"=10'
30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY L. SMITH	DRAWN BY D. BARNHART	CHECKED BY M. AMINI	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	URS HMM ARUP

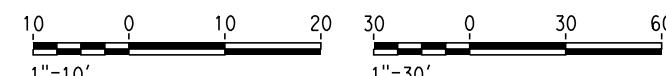
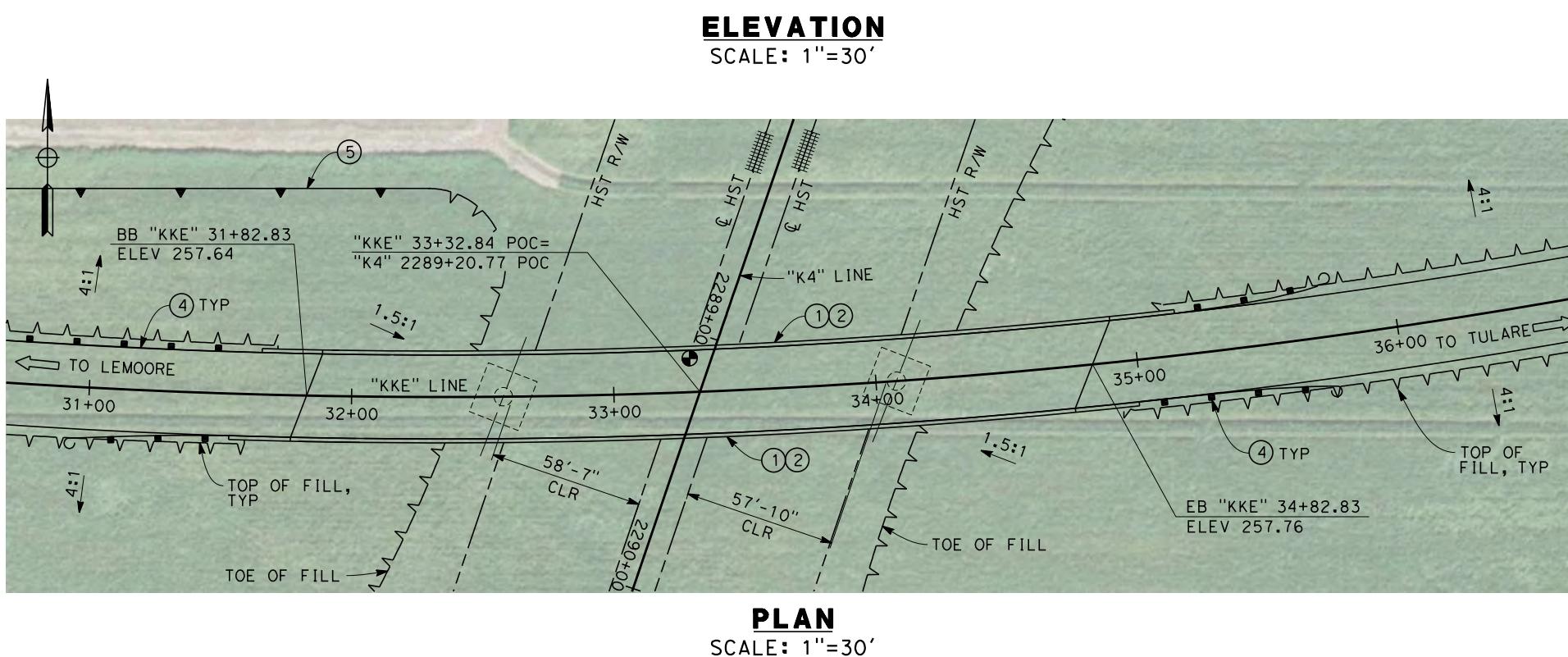


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2222
SCALE
AS SHOWN
SHEET NO.
3 OF 5



TYPICAL SECTION
SCALE: 1"=10'



PRE45072

REV	DATE	BY	CHK	APP	DESCRIPTION	
					12/31/13	

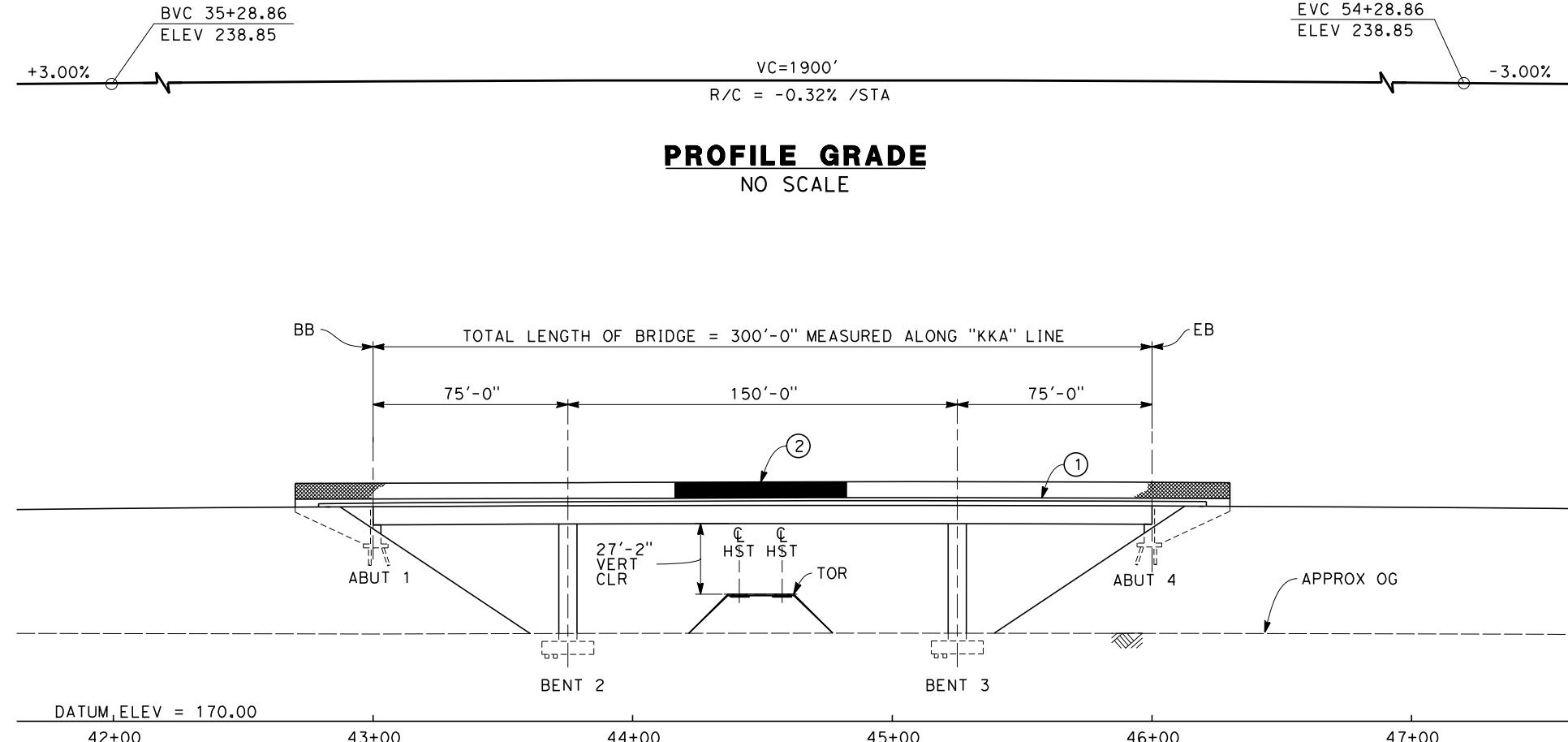
DESIGNED BY
L. SMITH
DRAWN BY
D. BARNHART
CHECKED BY
M. AMINI
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

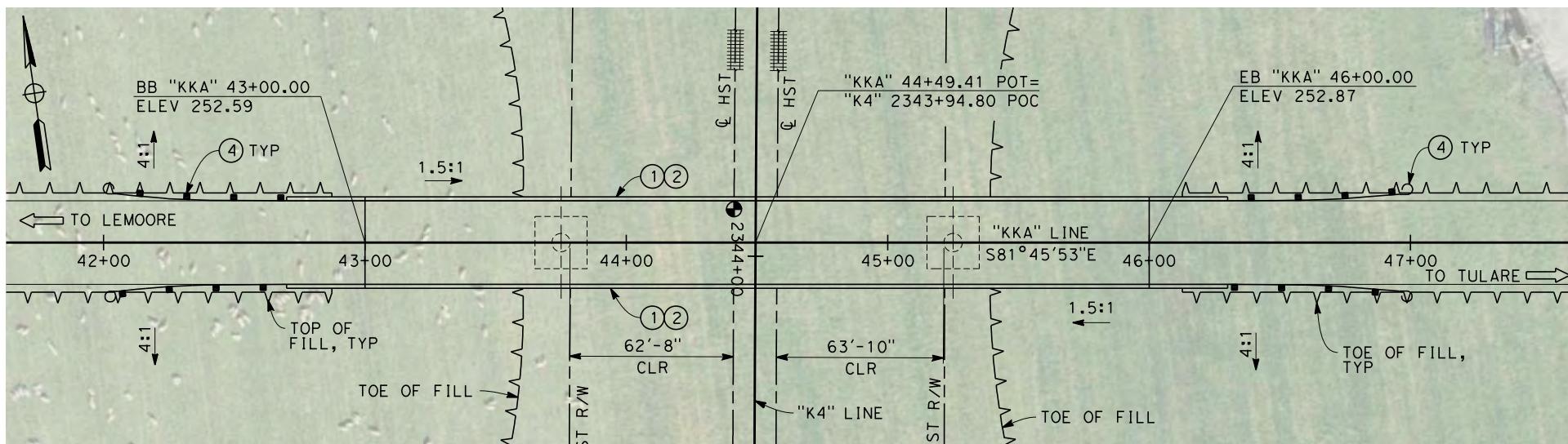


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K4
OVERHEAD PLANNING STUDY
KENT AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2226
SCALE
AS SHOWN
SHEET NO.
4 OF 5

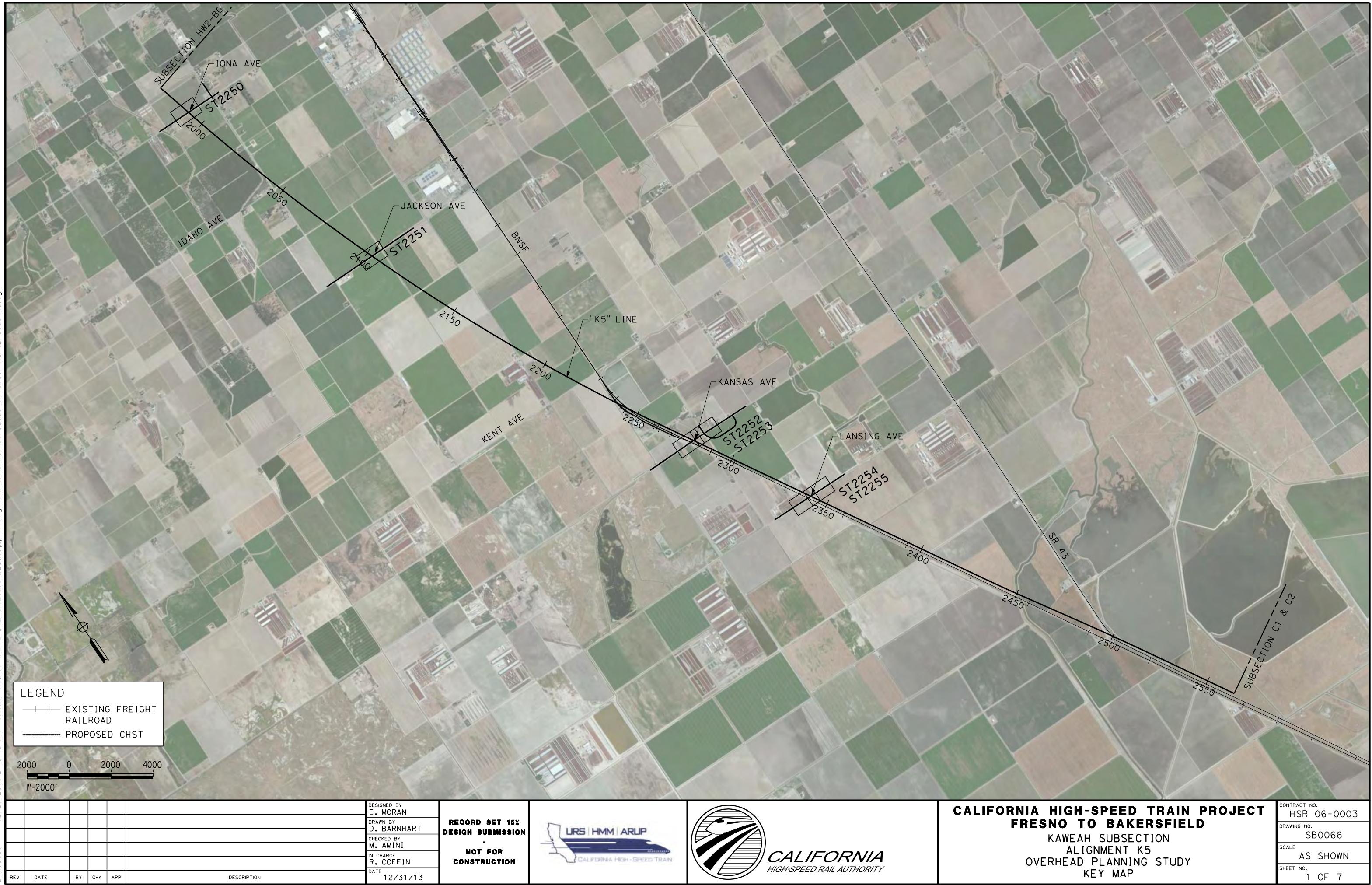


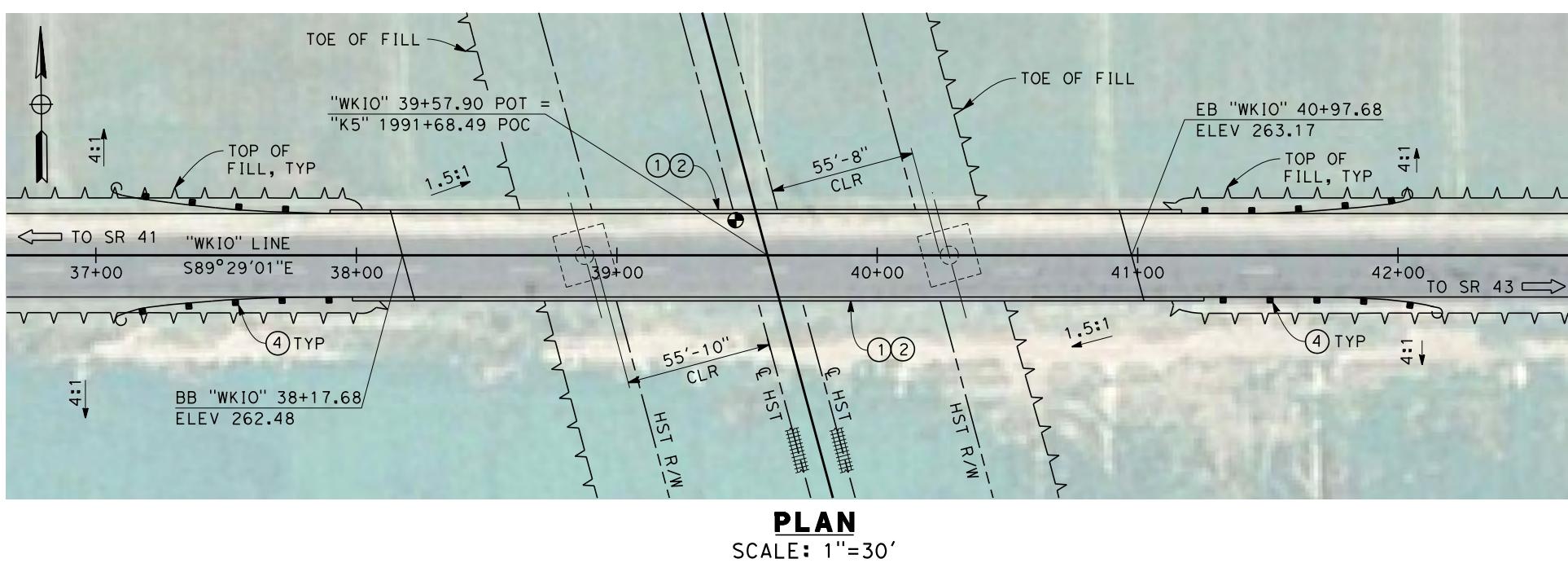
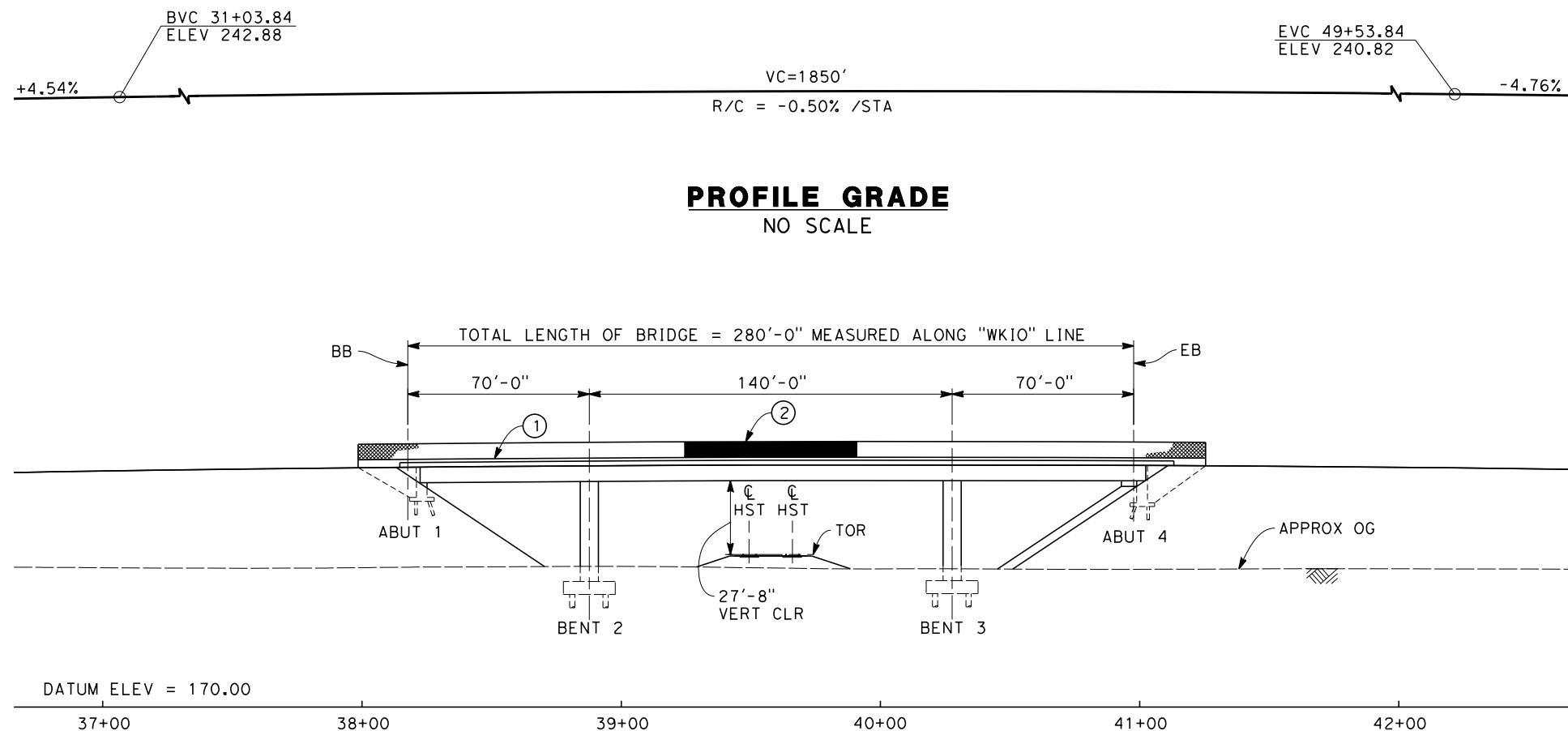
ELEVATION
SCALE: 1"=30'



PLAN
SCALE: 1"=30'

				DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
				DRAWN BY D. BARNHART	-			KAWeah SUBSECTION	DRAWING NO. ST2228
				CHECKED BY M. AMINI	NOT FOR CONSTRUCTION			ALIGNMENT K4	SCALE
				IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED TRAIN		OVERHEAD PLANNING STUDY	AS SHOWN
PRE45072	REV	DATE	BY	CHK	APP	DESCRIPTION	DATE	KANSAS AVE	SHEET NO. 5 OF 5
						12/31/13			





NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN. SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBCB



RECORD SET 15%
DESIGN SUBMISSION

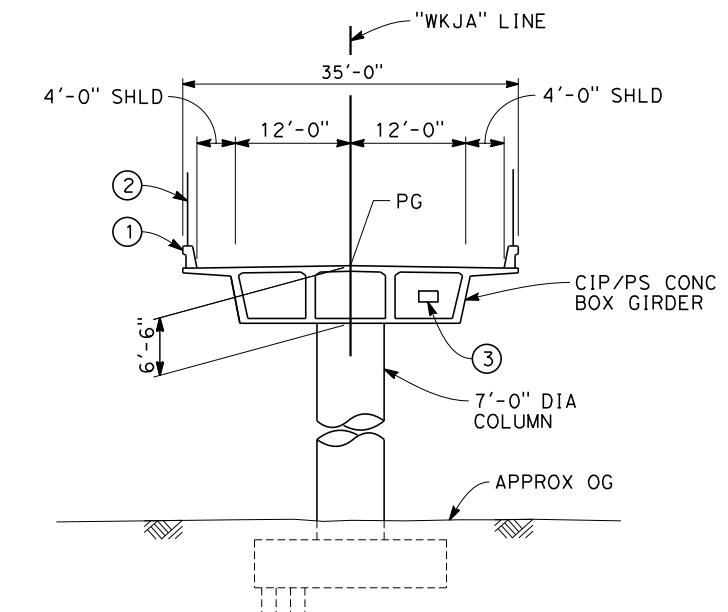
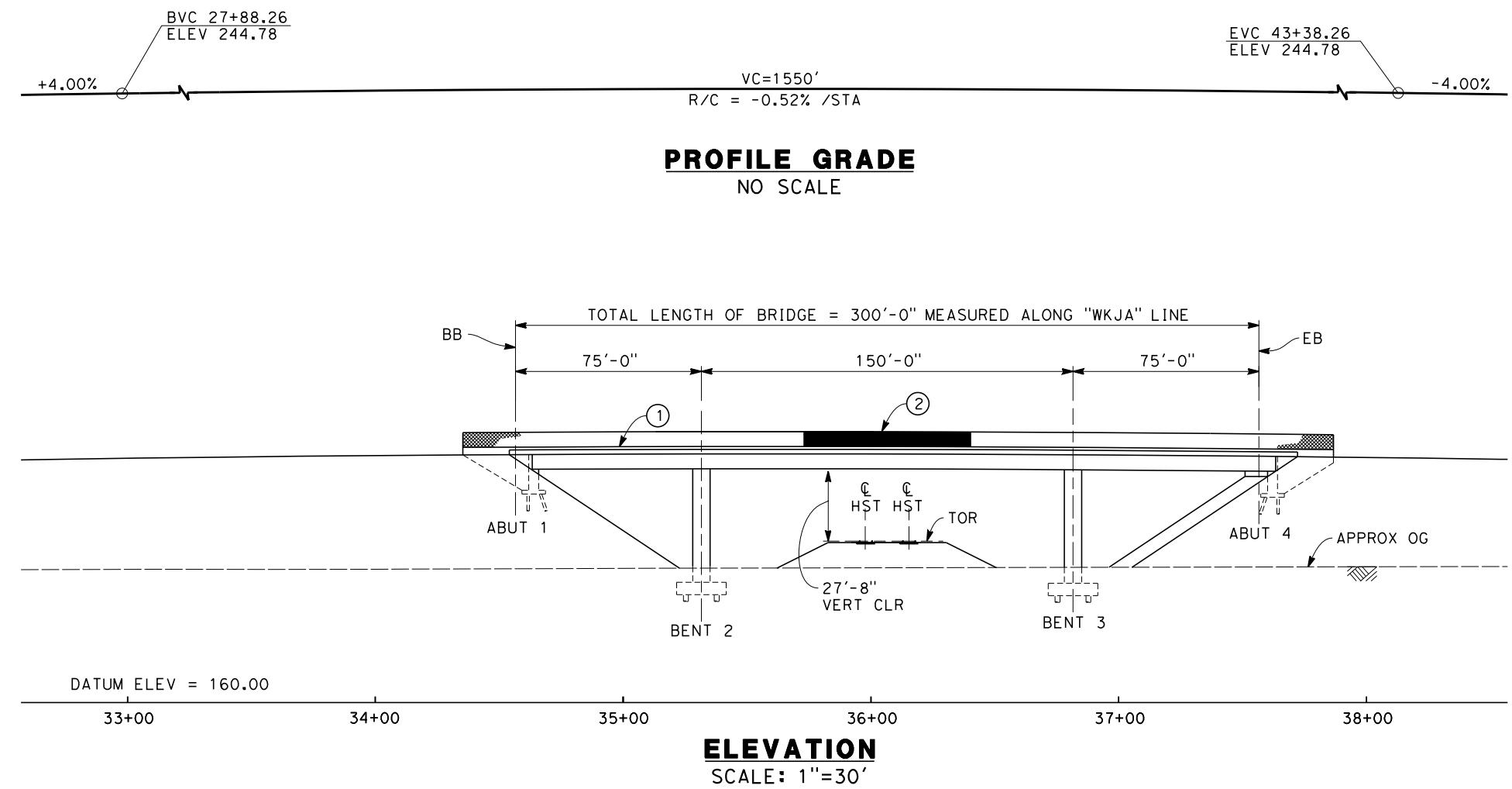
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

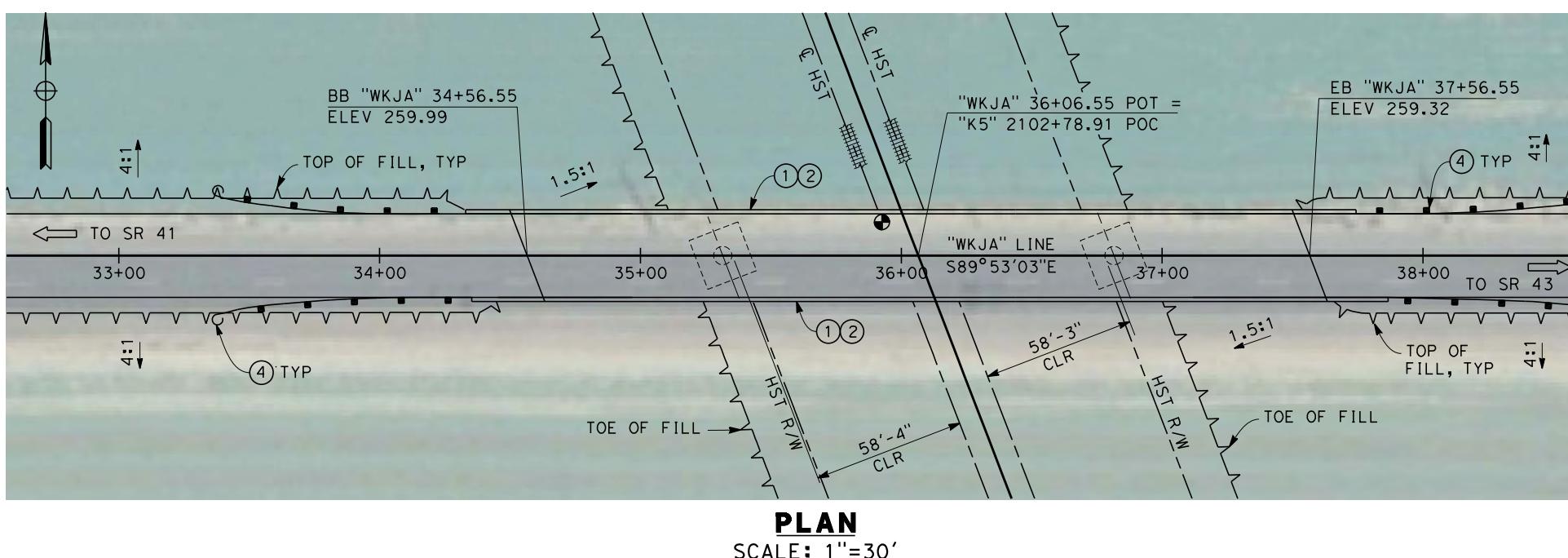
KAWeah SUBSECTION
ALIGNMENT K5
OVERHEAD PLANNING STUDY
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2250
CALE
AS SHOWN
HEET NO.
2 OF 7



TYPICAL SECTION

SCALE: 1"=10'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20
1"=10'

30 0 30 60
1"=30'

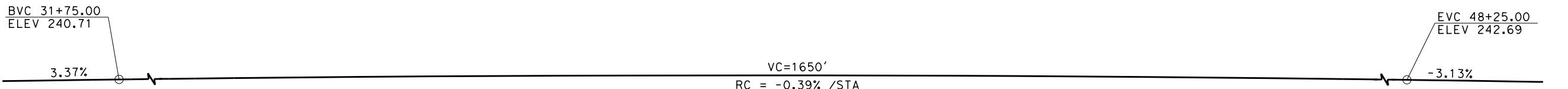
REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY E. MORAN	DRAWN BY D. BARNHART	CHECKED BY B. LUSCOMBE	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	URS HMM ARUP

DATE 12/31/13



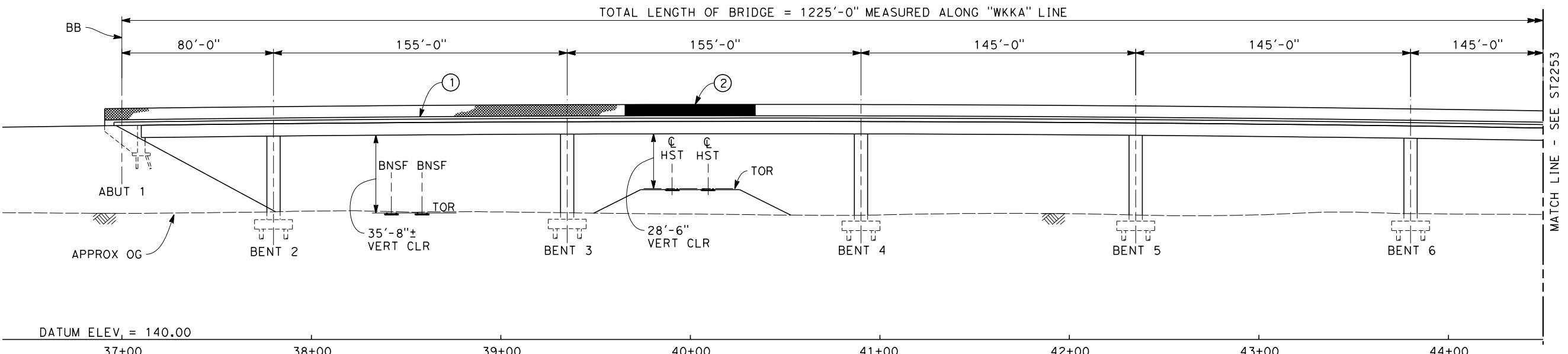
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K5
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2251
SCALE
AS SHOWN
SHEET NO.
3 OF 7



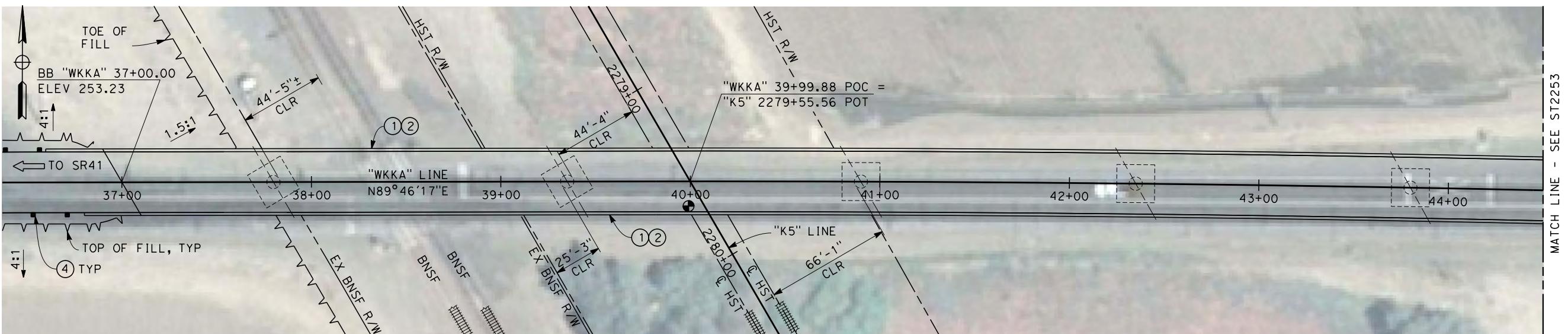
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



PLAN

SCALE: 1"=30'

30 0 30 60
1"=30'

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REV	DATE	BY CHK APP
		DESCRIPTION

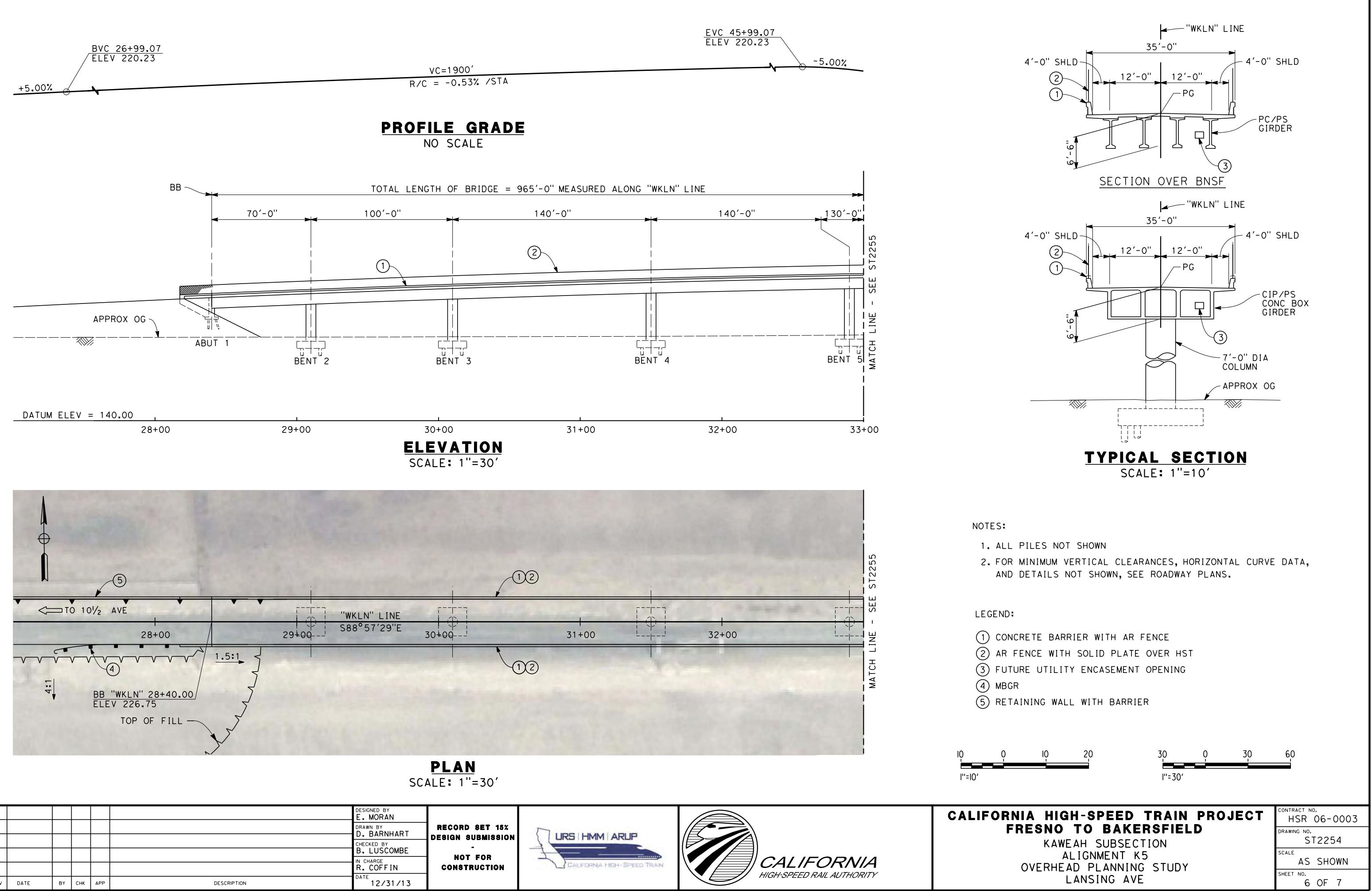
DESIGNED BY
E. MORAN
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE 12/31/13

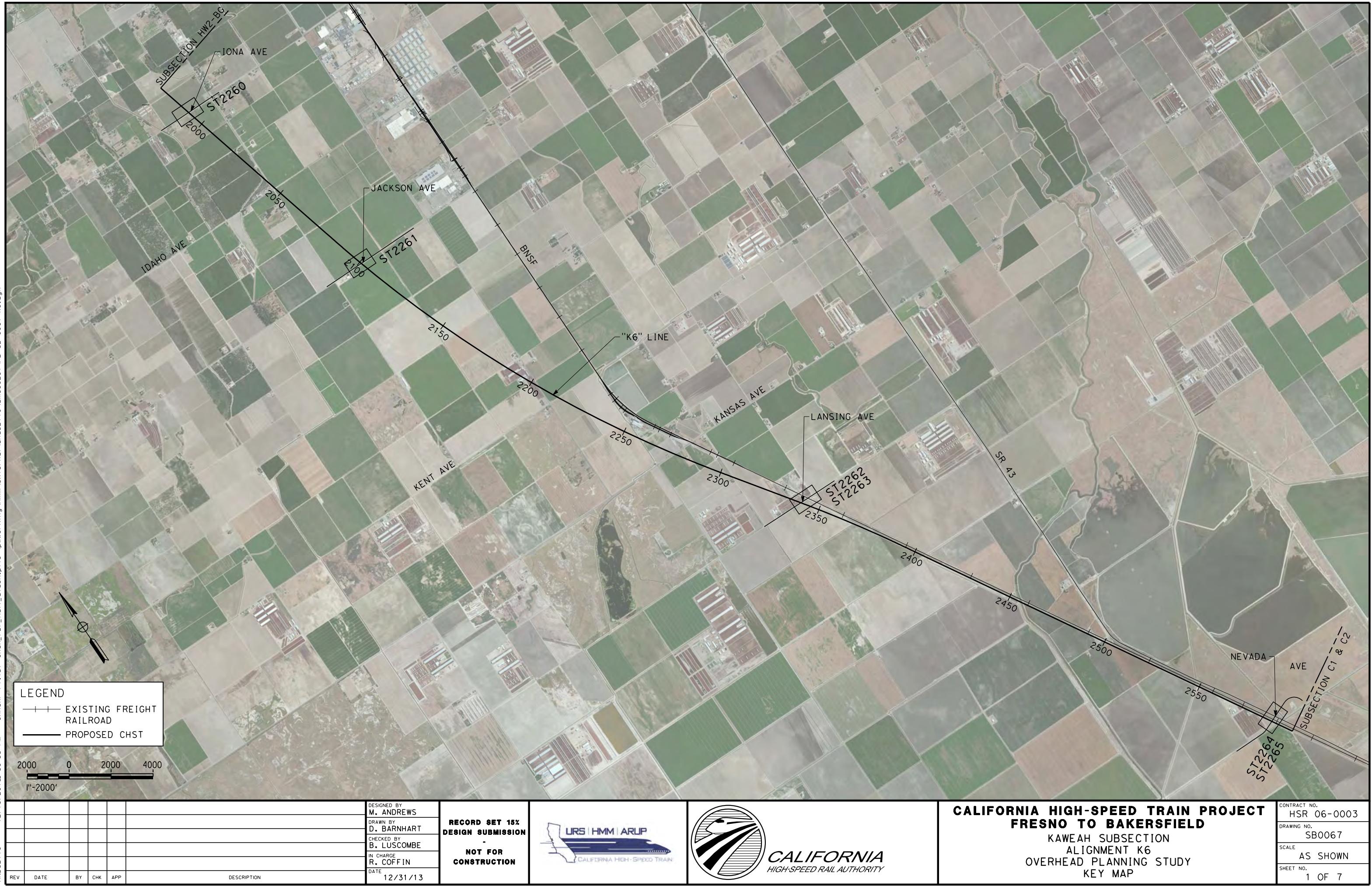
RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

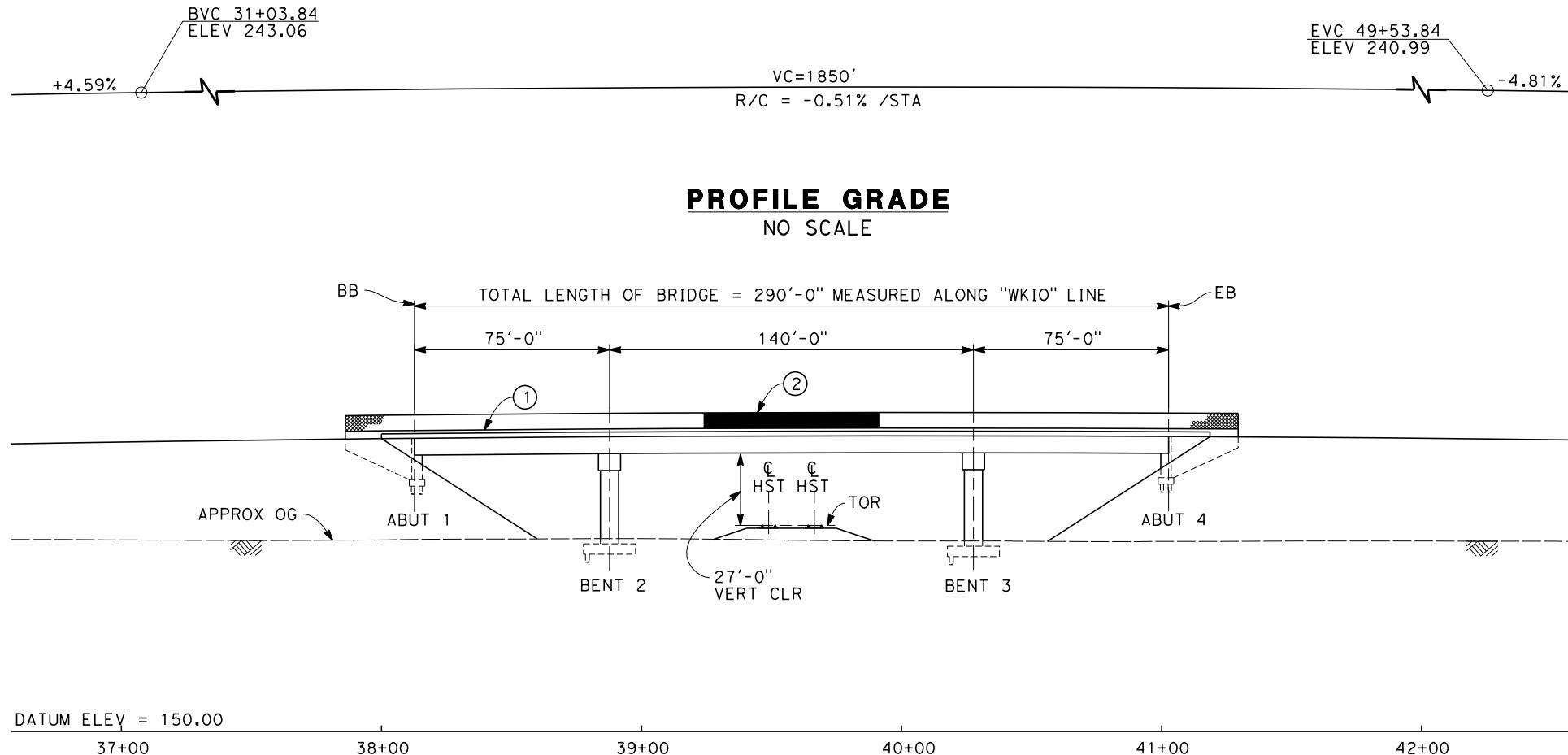


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K5
OVERHEAD PLANNING STUDY
KANSAS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2252
SCALE
AS SHOWN
SHEET NO.
4 OF 7



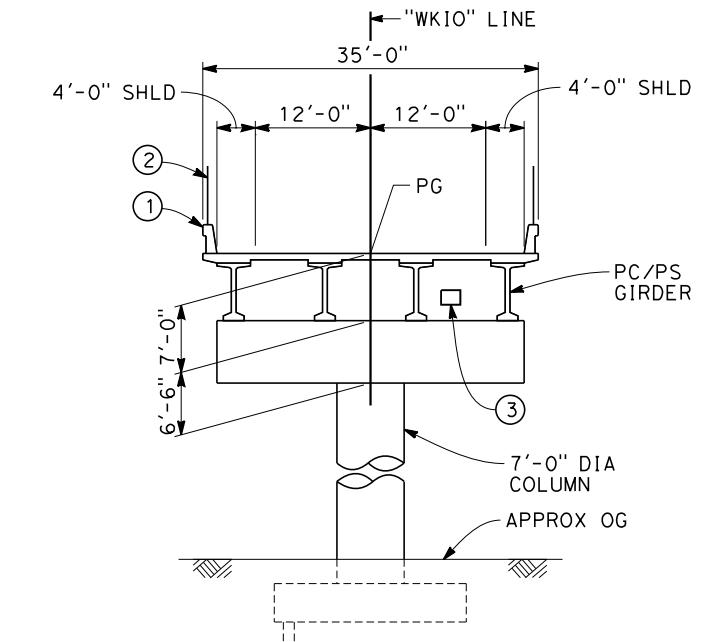




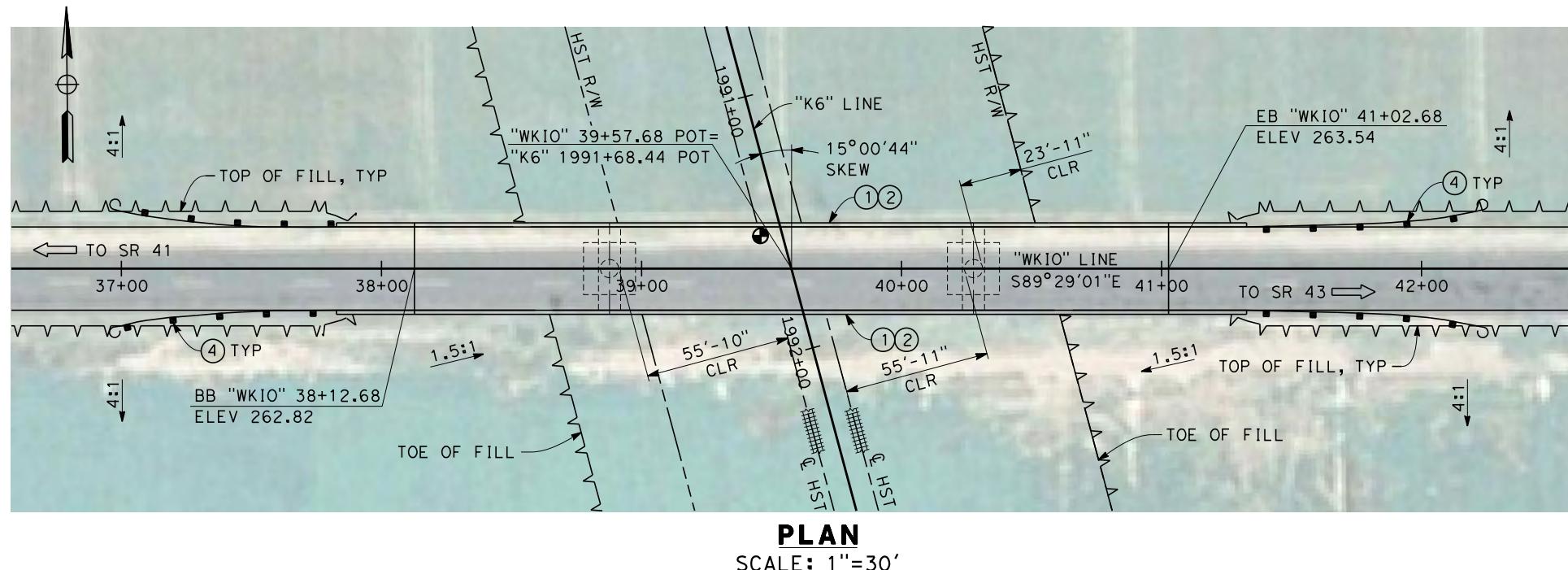
REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY
M. ANDREWS
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



TYPICAL SECTION
SCALE: 1"=10'

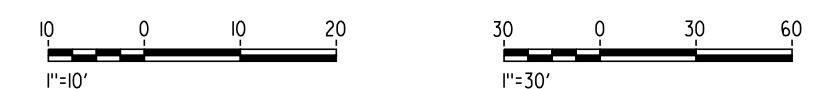


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

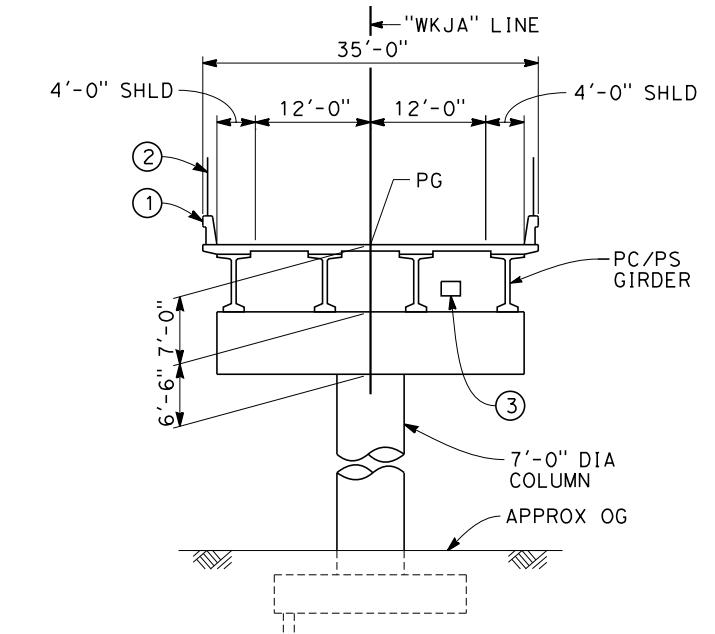
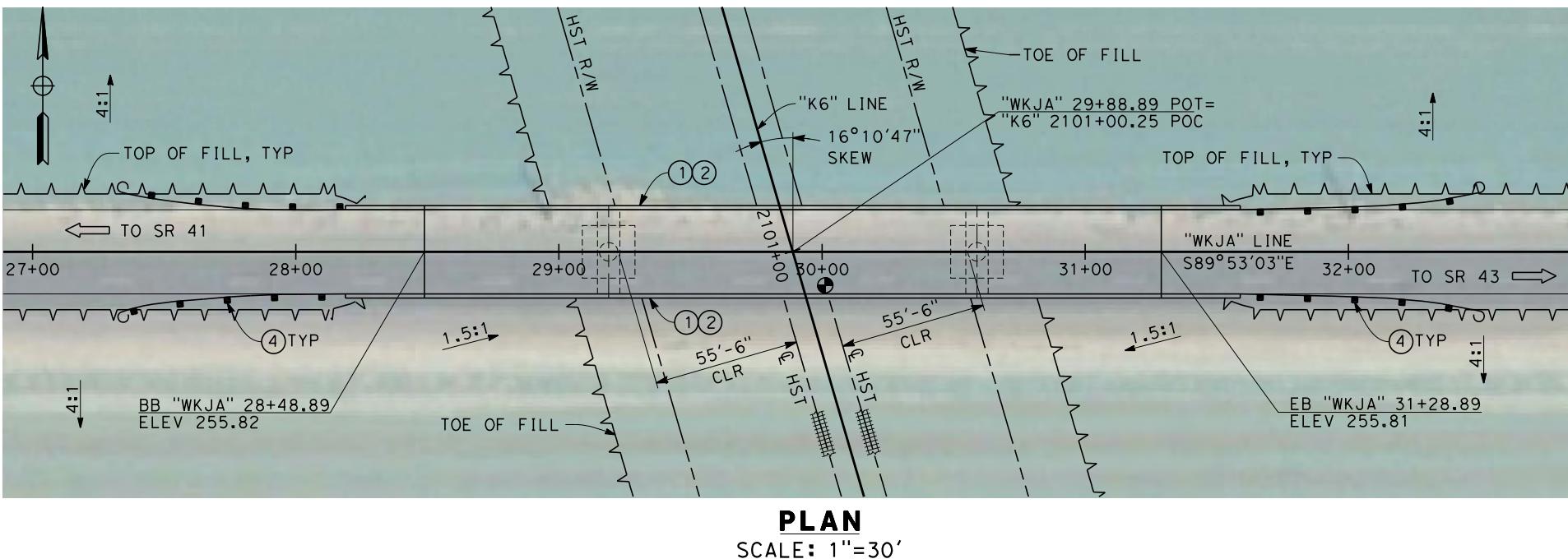
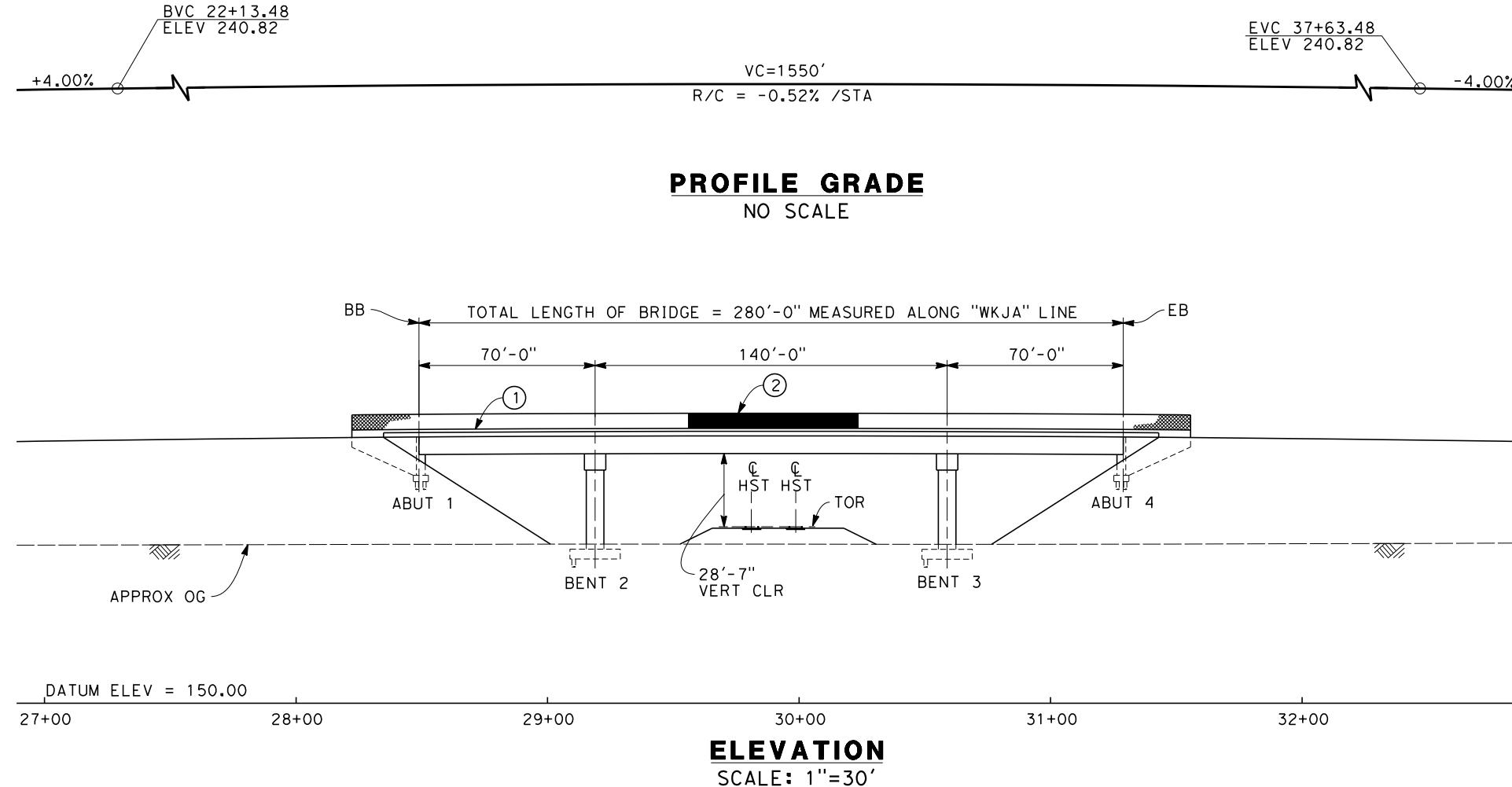
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT K6
OVERHEAD PLANNING STUDY
IONA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2260
SCALE
AS SHOWN
SHEET NO.
2 OF 7



TYPICAL SECTION
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

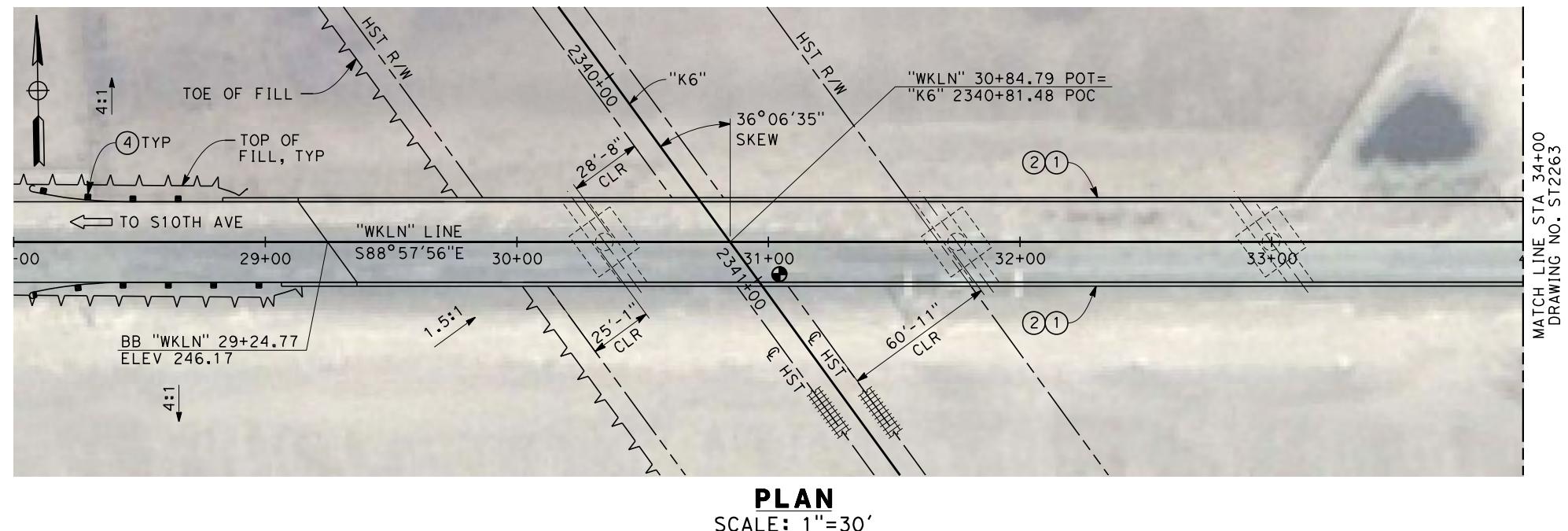
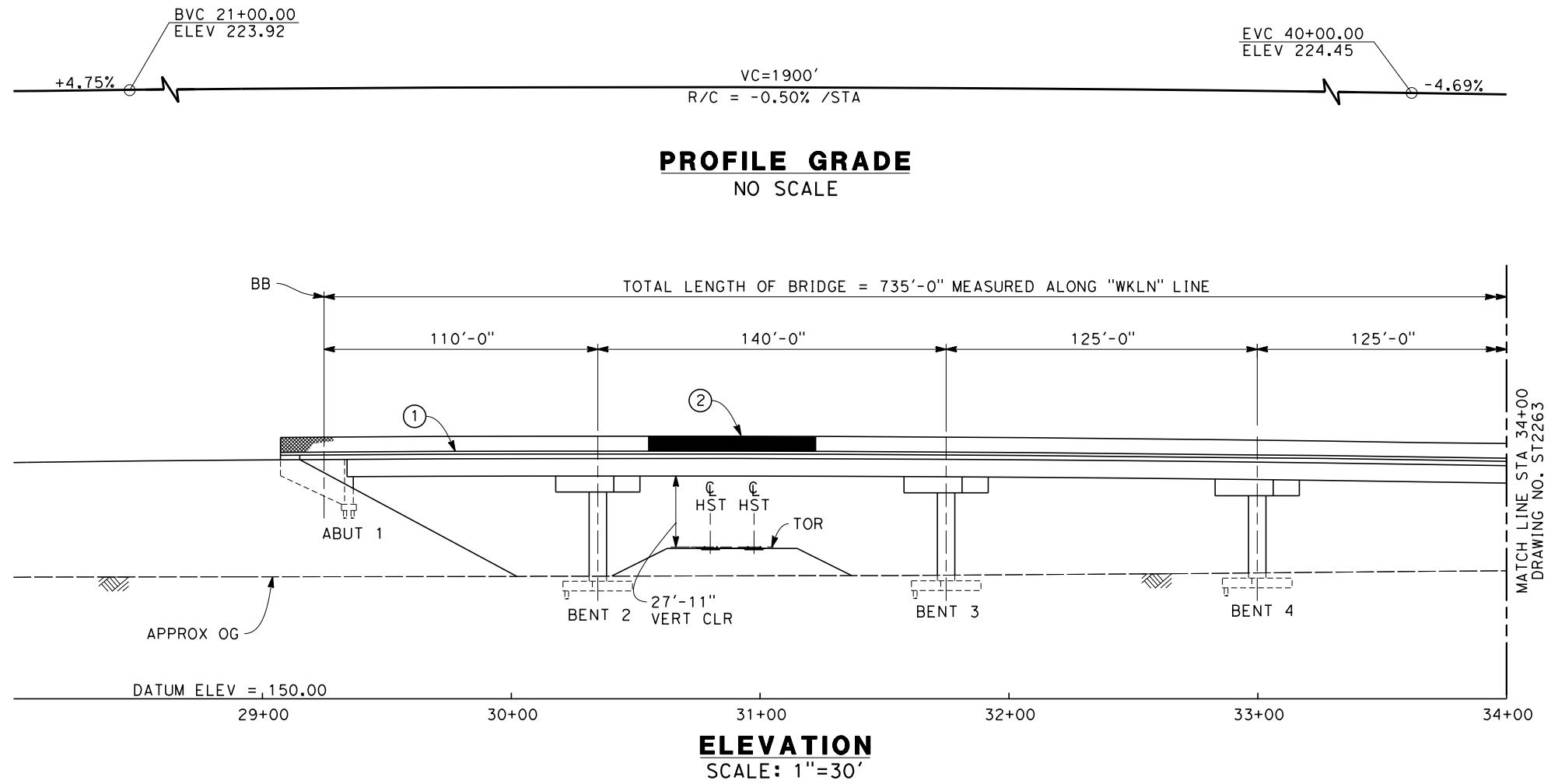
DESIGNED BY
M. ANDREWS
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K6
OVERHEAD PLANNING STUDY
JACKSON AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2261
SCALE
AS SHOWN
SHEET NO.
3 OF 7



OTES:

- ALL FILES NOT SHOWN
- FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLAN.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

					DESIGNED BY M. ANDRE
					DRAWN BY D. BARNH
					CHECKED BY B. LUSCO
					IN CHARGE R. COFFI
					DATE 12/31
REV	DATE	BY	CHK	APP	DESCRIPTION

RECORD SET 15%
DESIGN SUBMISSION

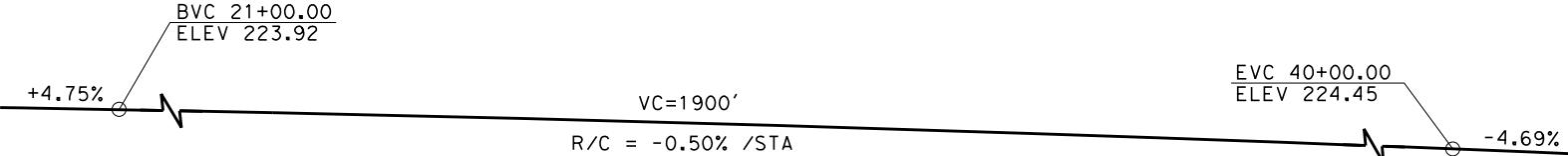
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

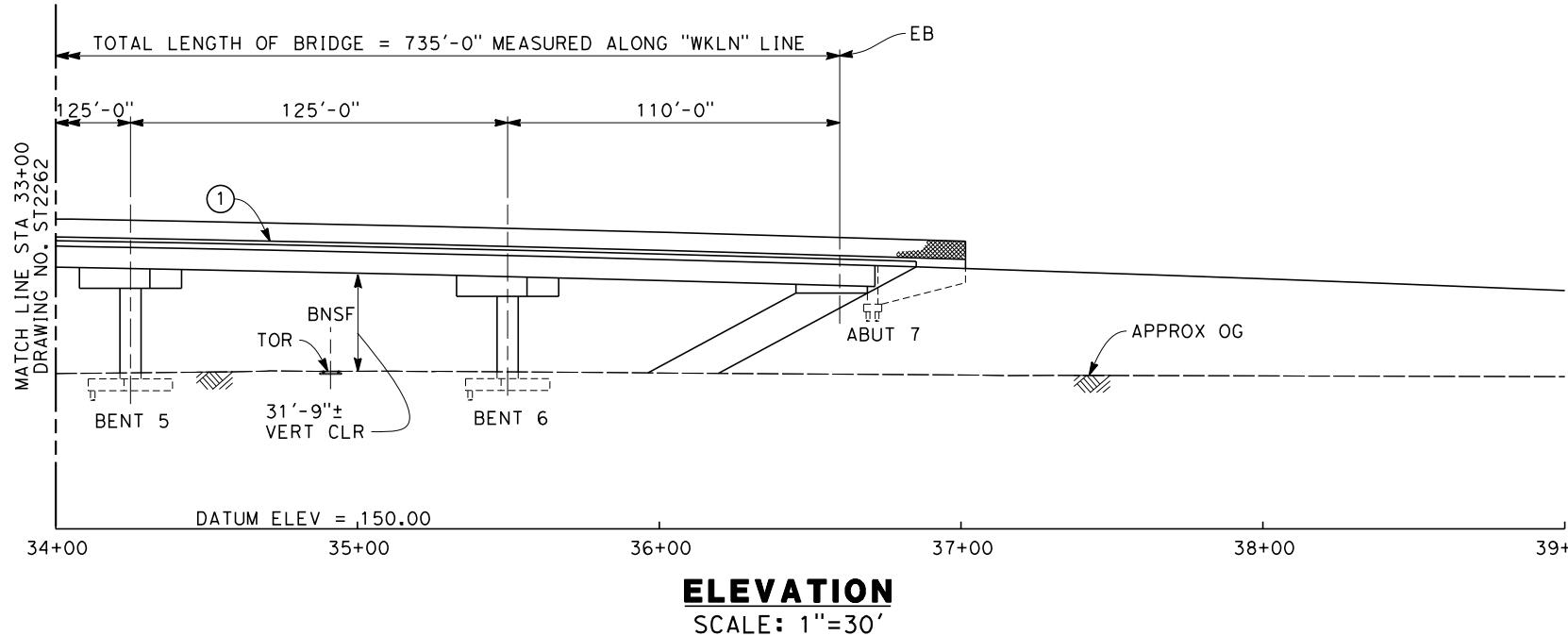
KAWEAH SUBSECTION
ALIGNMENT K6
OVERHEAD PLANNING STUDY
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2262
CALE AS SHOWN
HEET NO. 4 OF 7



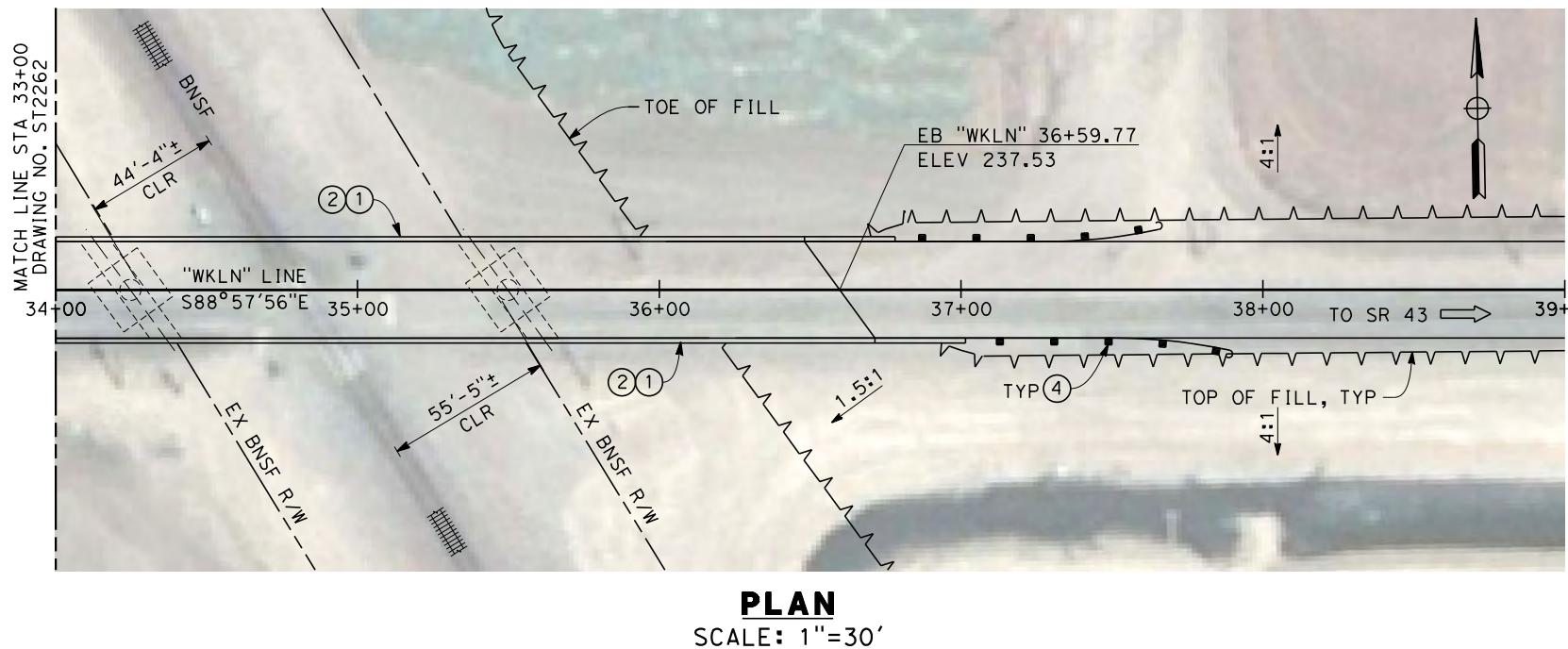
PROFILE GRADE

NO SCALE



ELEVATION

SCALE: 1"=30'



NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCE, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR



REV	DATE	BY	CHK	APP	DESCRIPTION

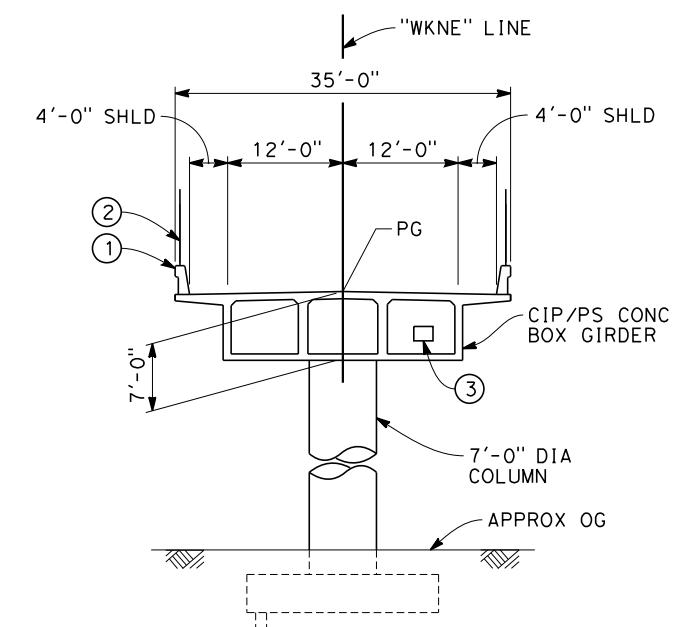
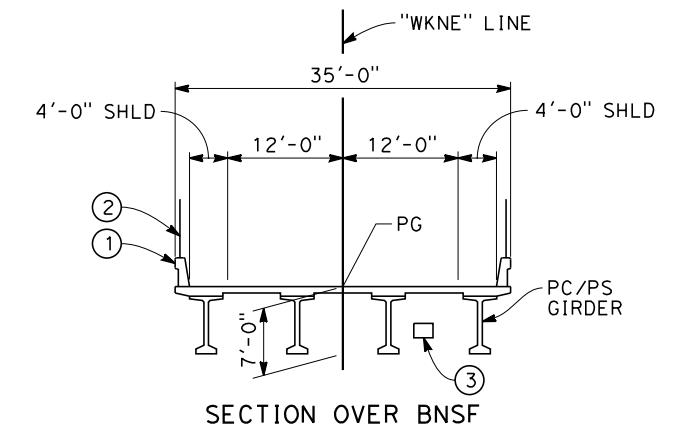
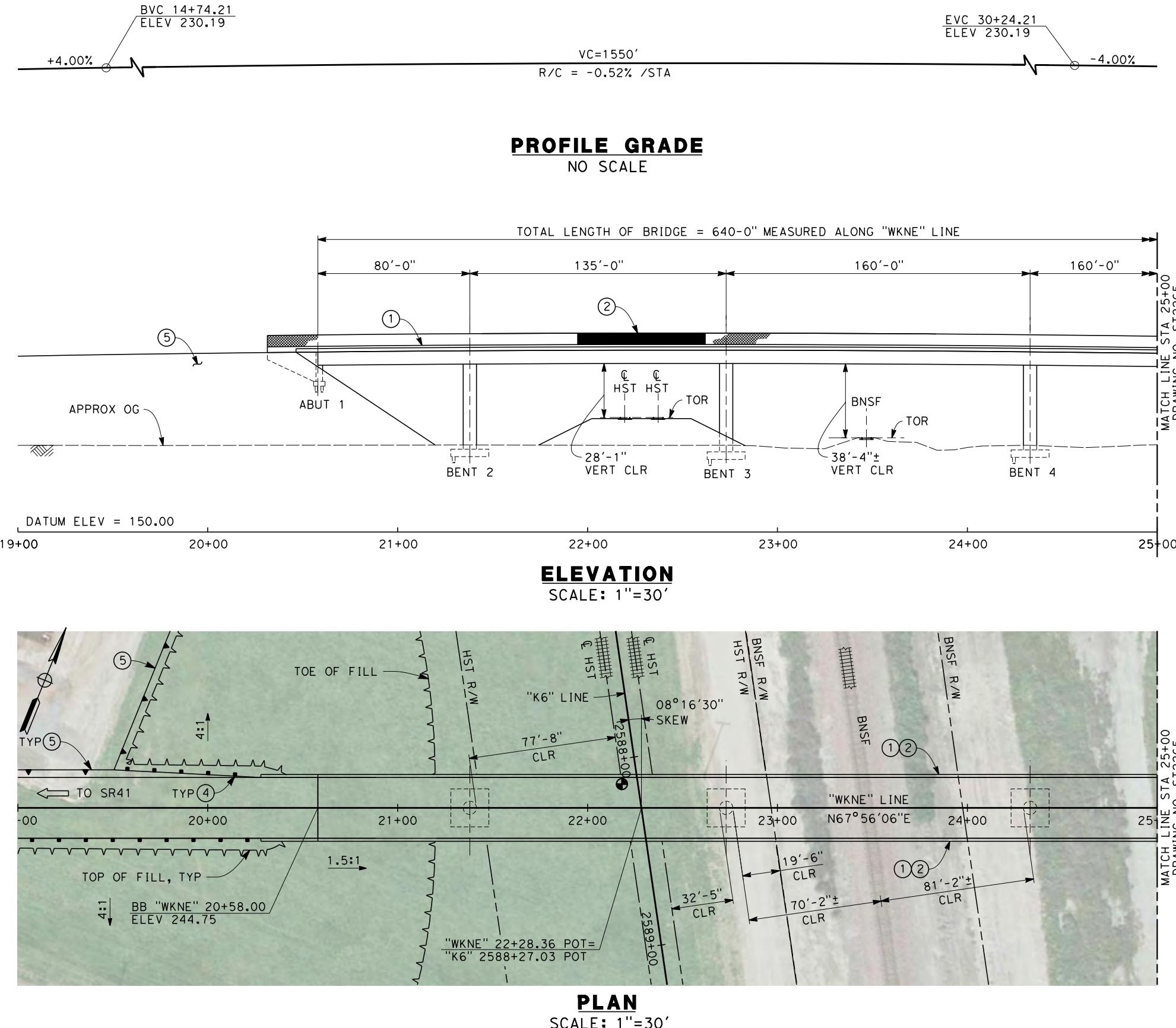
DESIGNED BY
M. ANDREWS
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K6
OVERHEAD PLANNING STUDY
LANSING AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2263
SCALE
AS SHOWN
SHEET NO.
5 OF 7



TYPICAL SECTION

SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR
- (5) RETAINING WALL (SEE ROADWAY PLANS)



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

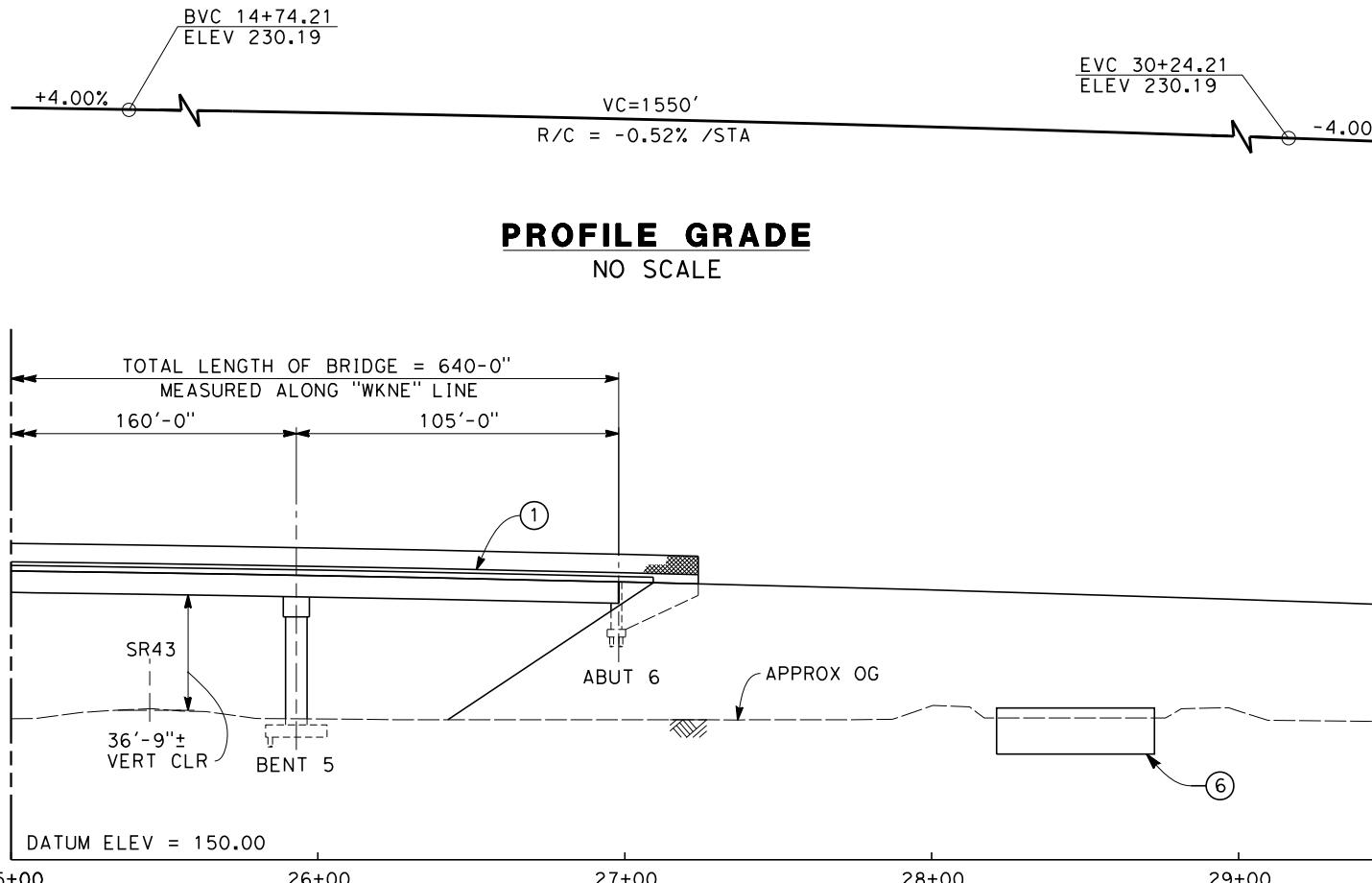
DESIGNED BY
M. ANDREWS
DRAWN BY
D. BARNHART
CHECKED BY
B. LUSCOMBE
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

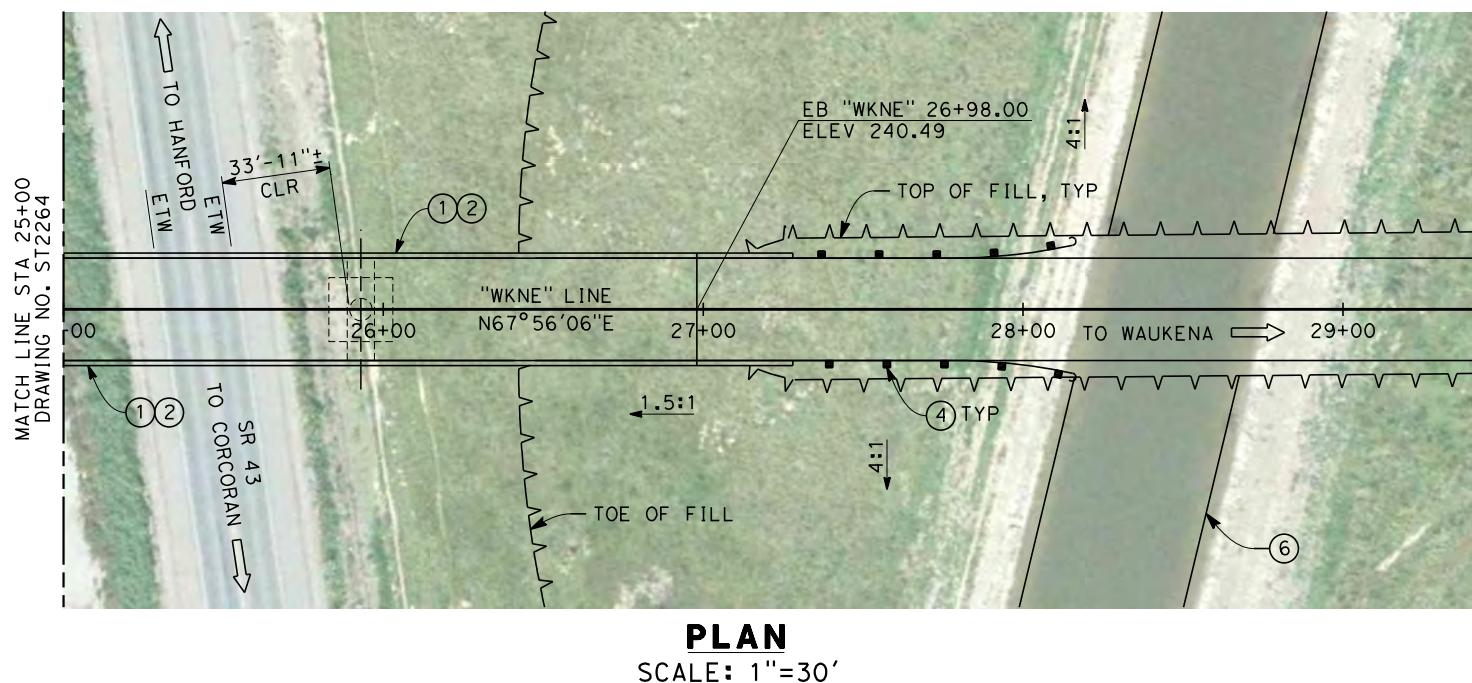


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
KAWeah SUBSECTION
ALIGNMENT K6
OVERHEAD PLANNING STUDY
NEVADA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2264
SCALE
AS SHOWN
SHEET NO.
6 OF 7



ELEVATION
SCALE: 1"=30'

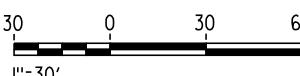


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL (SEE ROADWAY PLANS)
- ⑥ CULVERT (SEE ROADWAY PLANS)



AND52110 12/19/2013 4:55

CAHSRP-r1.tbi CHSR_PBu_half_black.ptc:\pwworking\hmm\external\ands2110\dms9029\b1-B-S-1-2265-k6.dgn

PM

AND5

DESIGNED
M. AN
DRAWN BY
D. BA
CHECKED
B. LU
IN CHARGE
R. CO
DATE
12

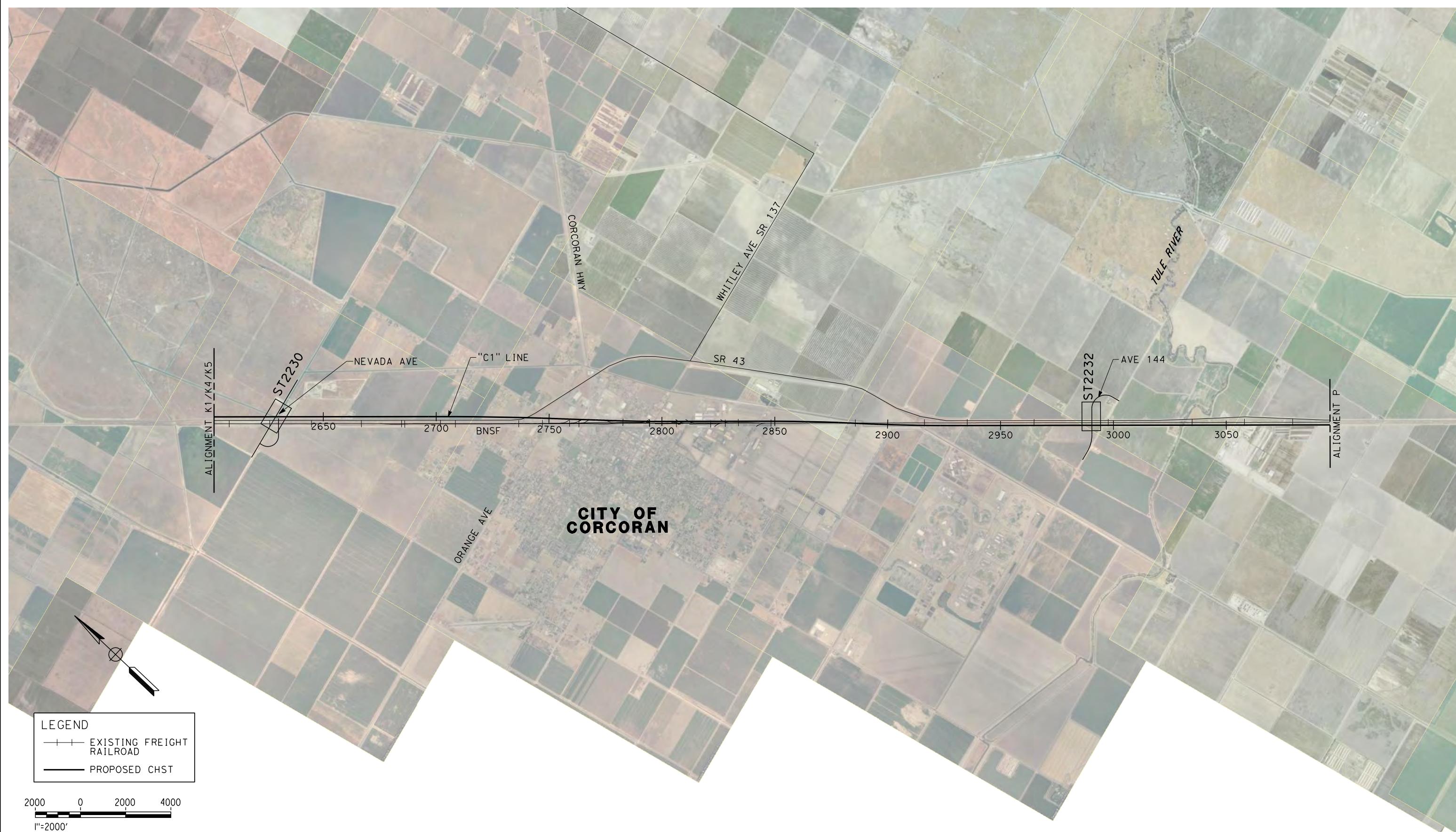
RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

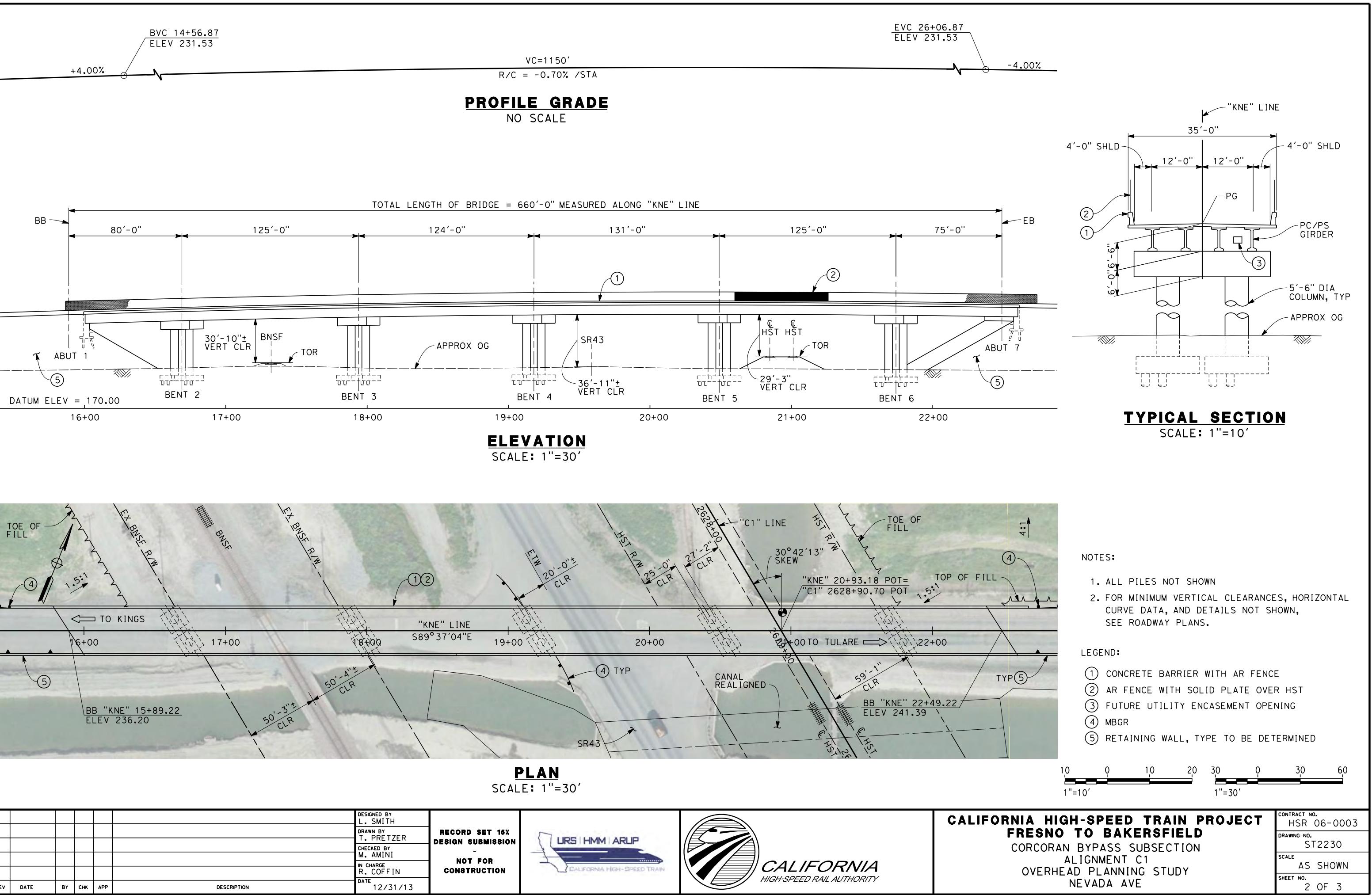


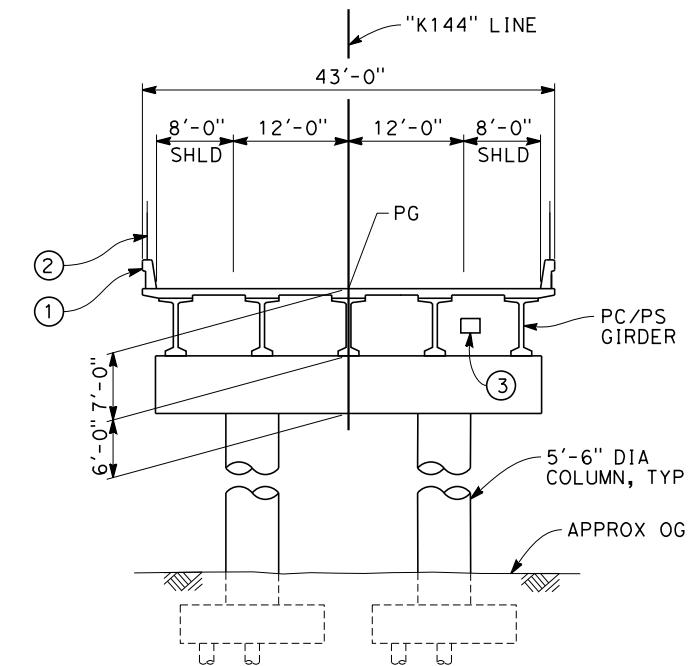
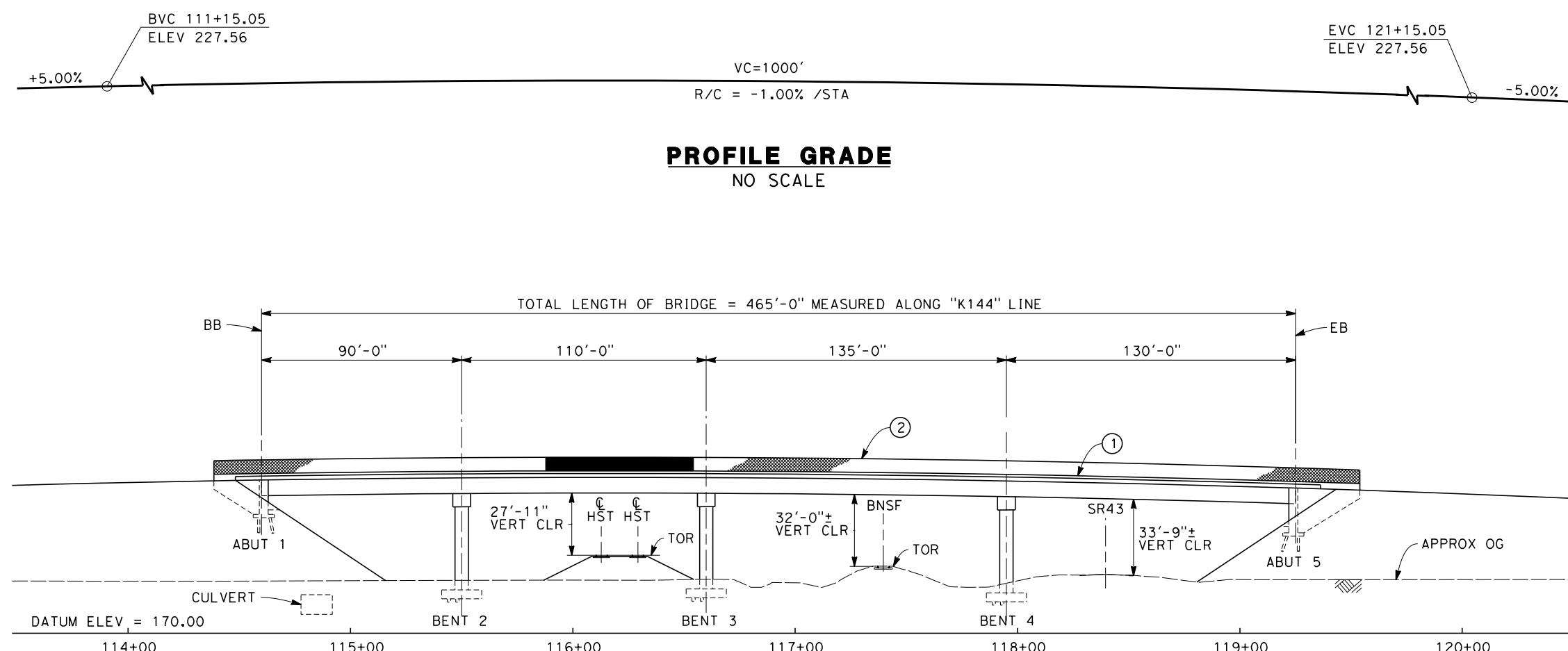
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

**KAWeah SUBSECTION
ALIGNMENT K6
OVERHEAD PLANNING STUDY
NEVADA AVE**

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2265
SCALE
AS SHOWN
SHEET NO.
7 OF 7

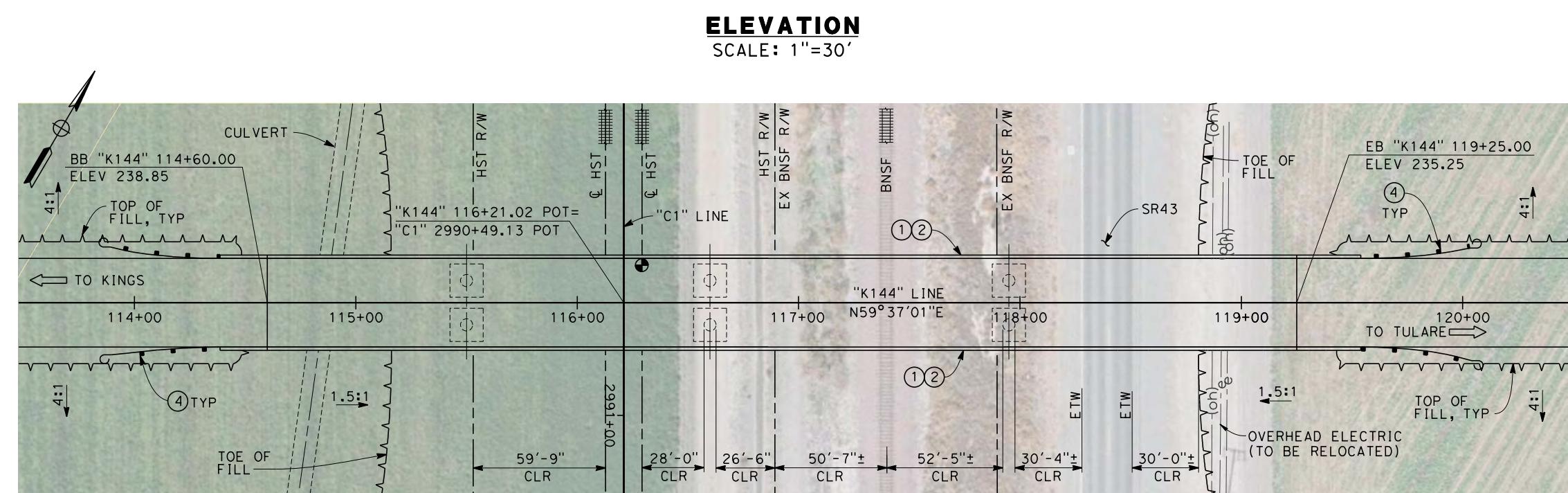






TYPICAL SECTION

SCALE: 1"=10'

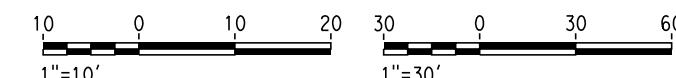


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

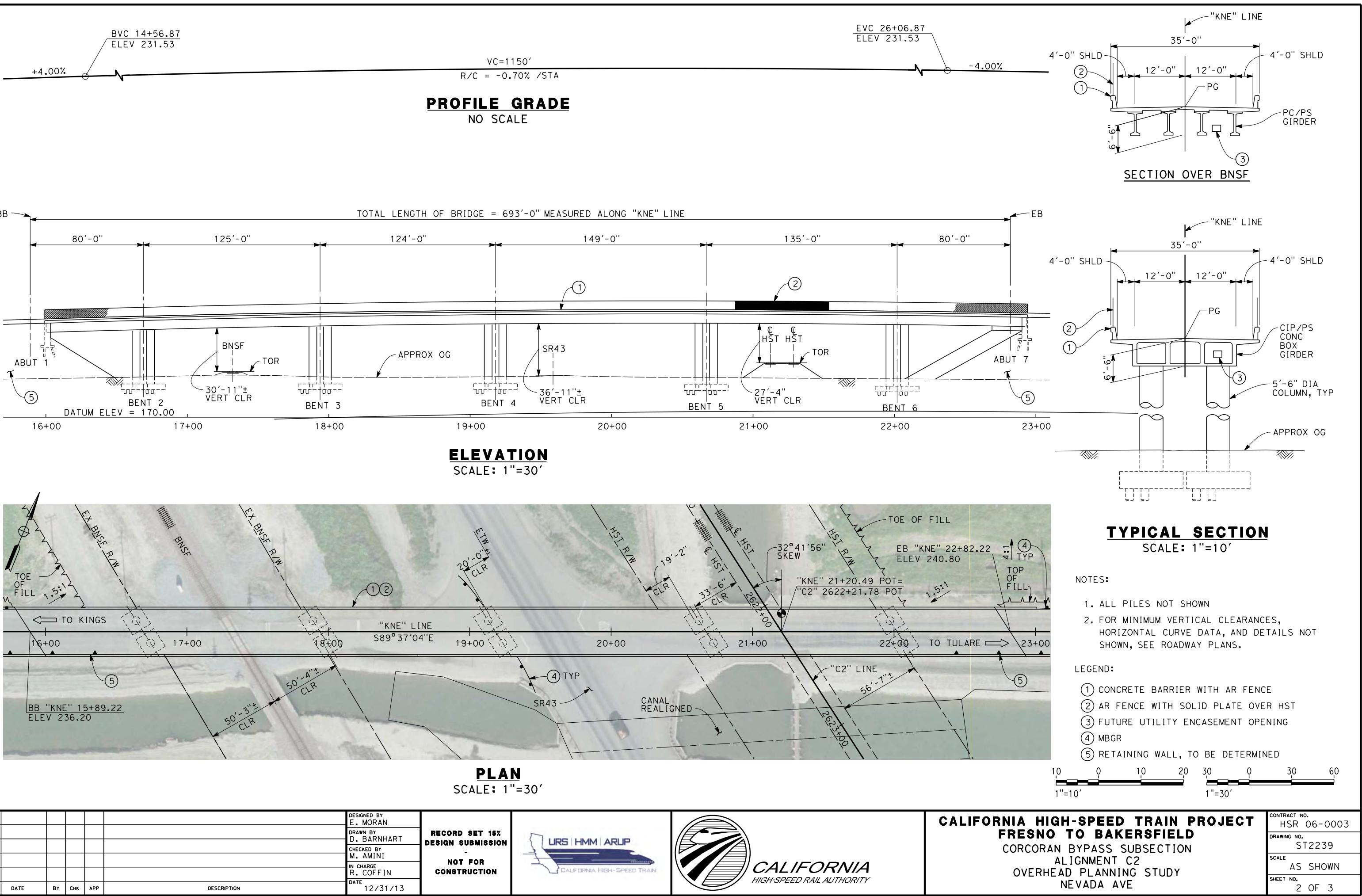


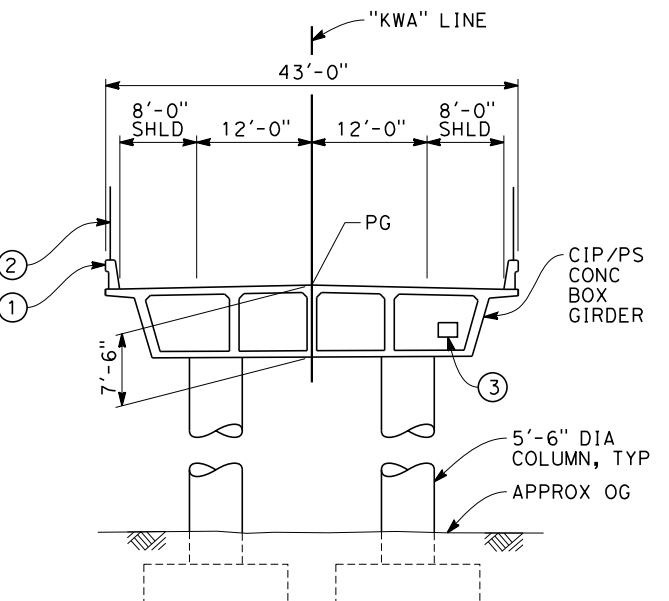
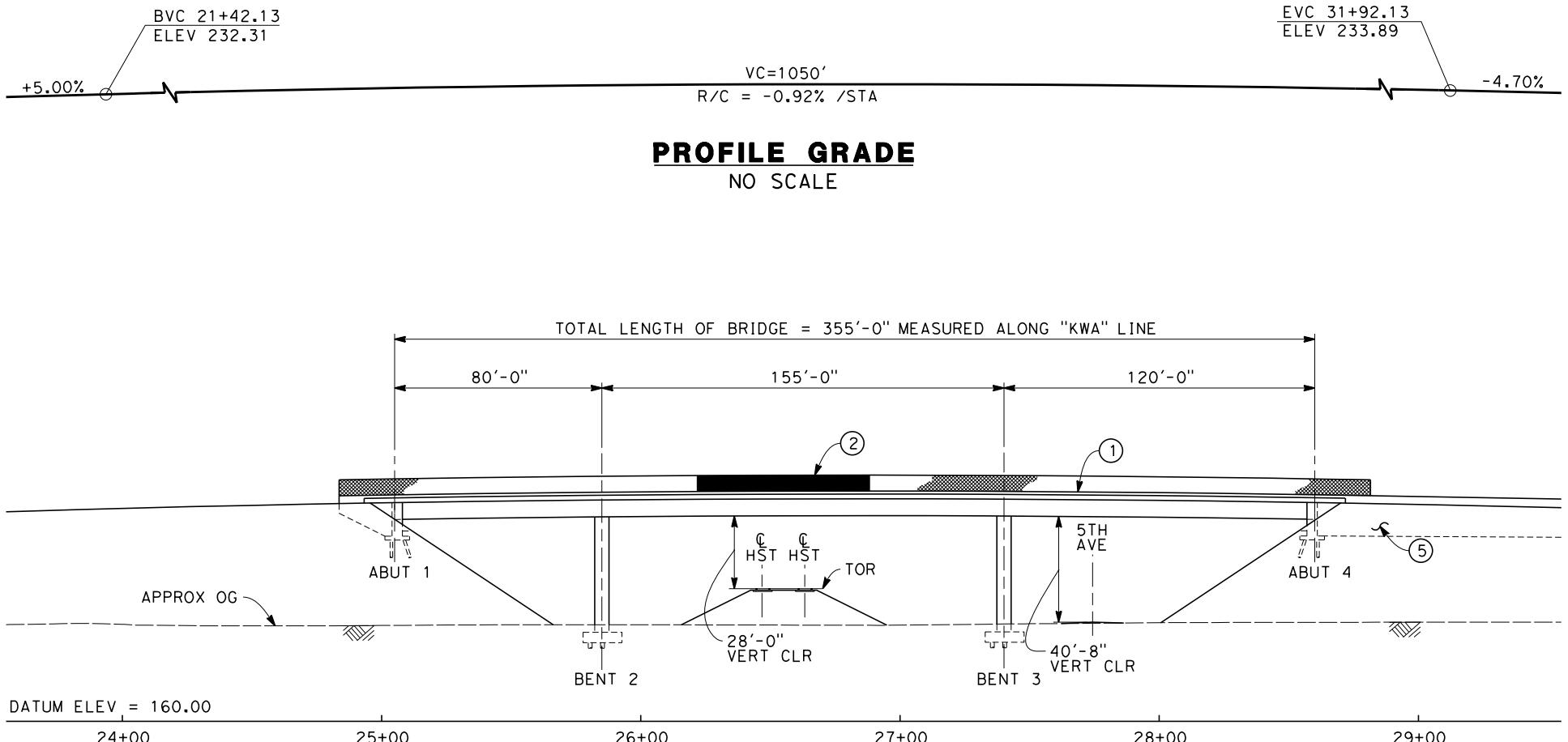
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DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY D. BARNHART	-		CORCORAN SUBSECTION	DRAWING NO. ST2232
CHECKED BY M. AMINI	NOT FOR CONSTRUCTION		ALIGNMENT C1	SCALE
IN CHARGE R. COFFIN			OVERHEAD PLANNING STUDY	AS SHOWN
DATE 12/31/13	DESCRIPTION	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	AVE 144	SHEET NO. 3 OF 3
REV	DATE	BY	CHK	APP



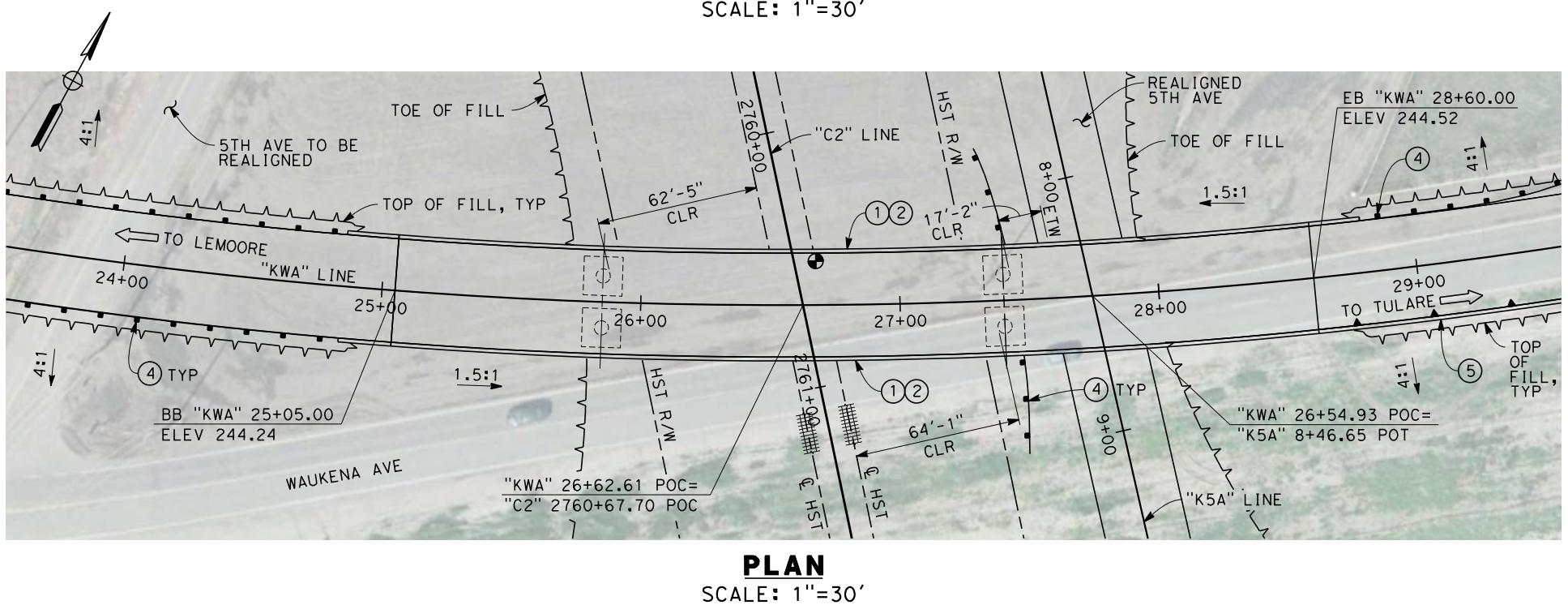
BAR59603	DESIGNED BY L. SMITH	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN BYPASS SUBSECTION ALIGNMENT C2 OVERHEAD PLANNING STUDY KEY MAP	CONTRACT NO. HSR 06-0003
	DRAWN BY D. BARNHART	-	CALIFORNIA HIGH-SPEED TRAIN		DRAWING NO. SB0075
	CHECKED BY M. AMINI	NOT FOR CONSTRUCTION			SCALE AS SHOWN
	IN CHARGE R. COFFIN	DATE 12/31/13			SHEET NO. 1 OF 3
REV	DATE	BY	CHK	APP	DESCRIPTION





TYPICAL SECTION

SCALE: 1"=10'

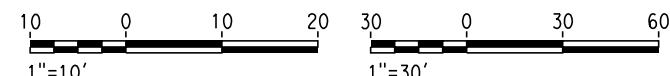


NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

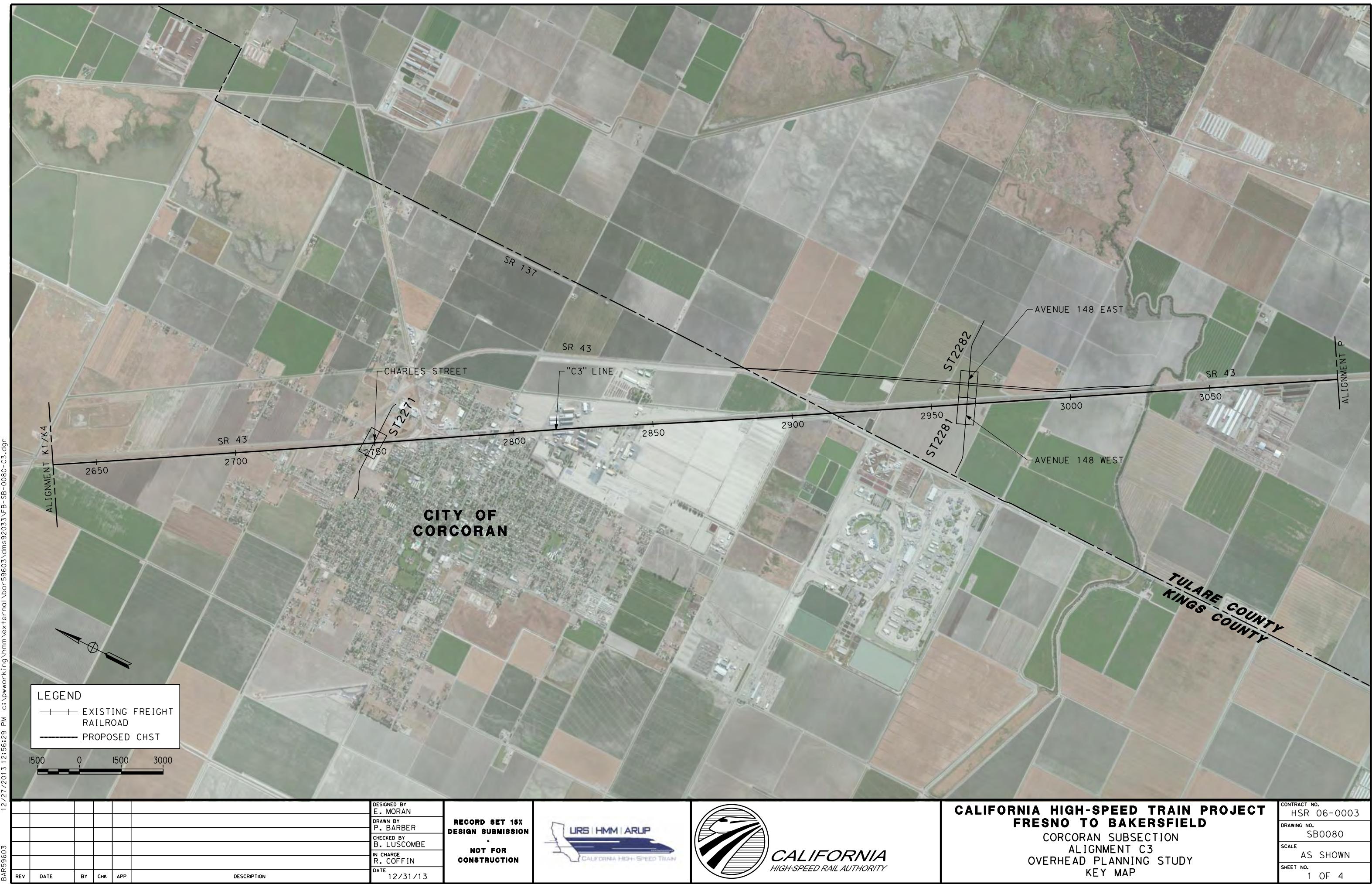
- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL, TYPE TO BE DETERMINED

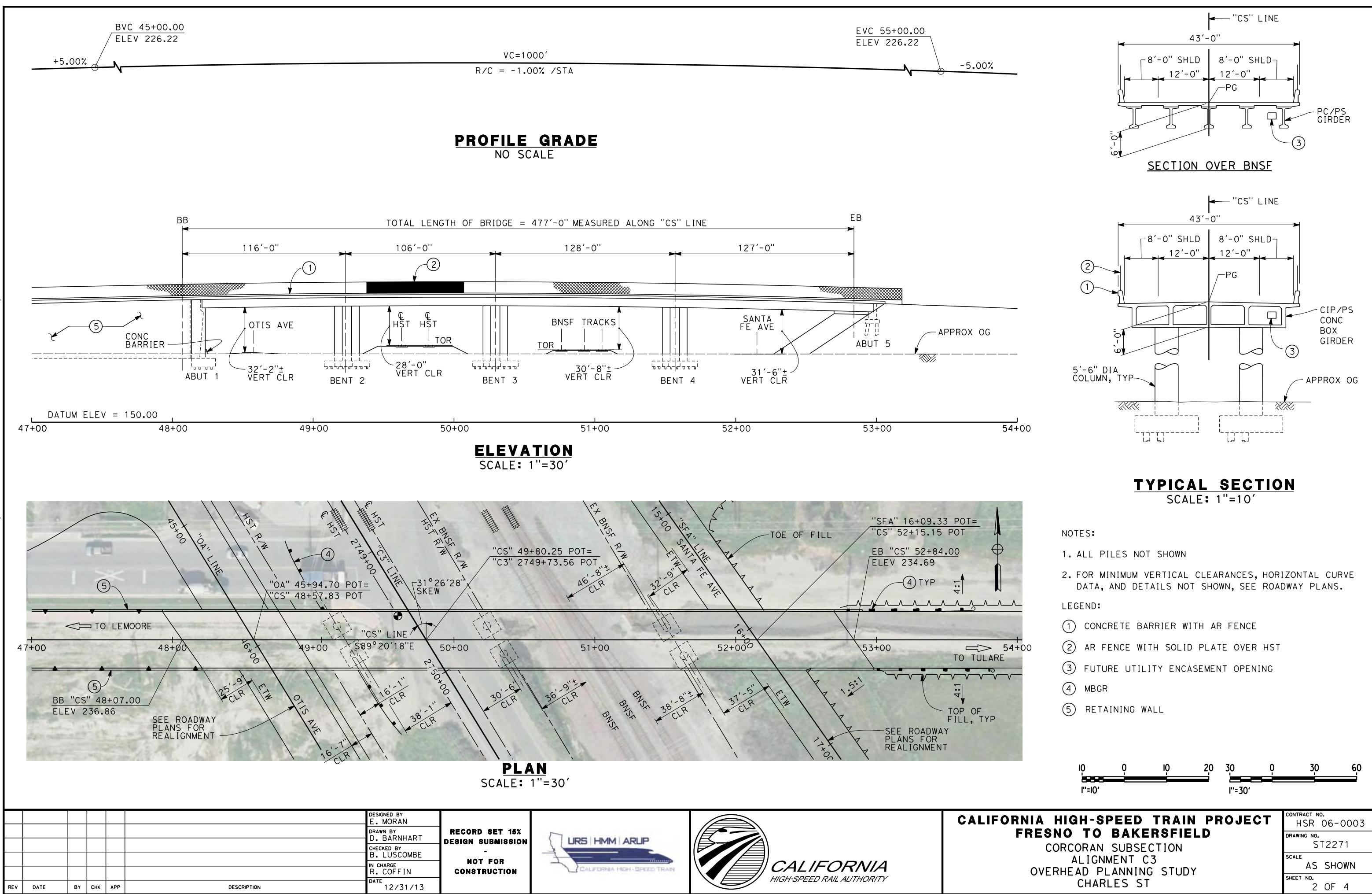


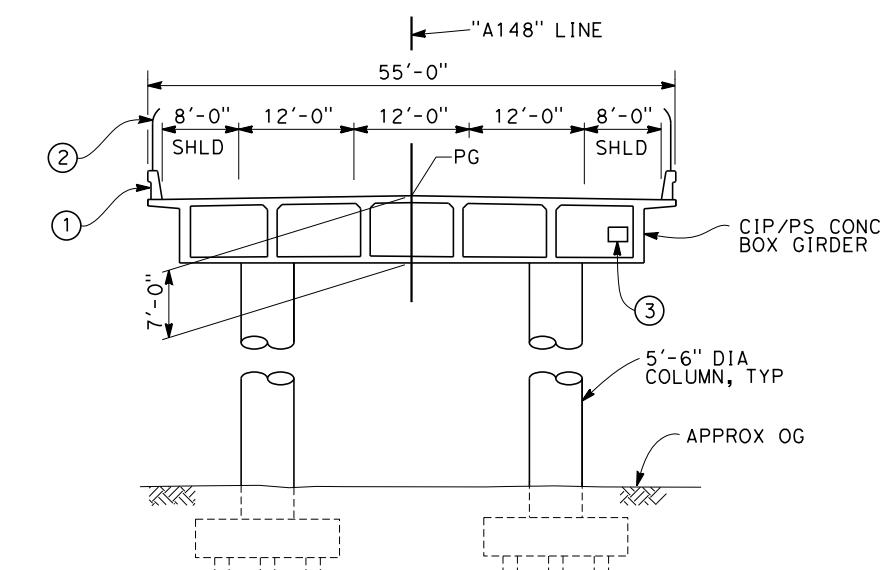
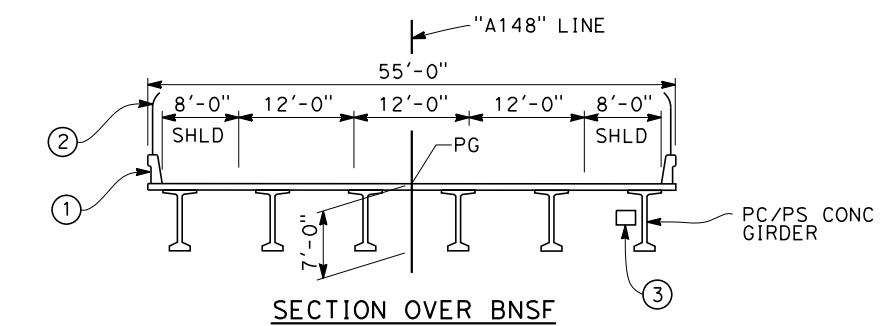
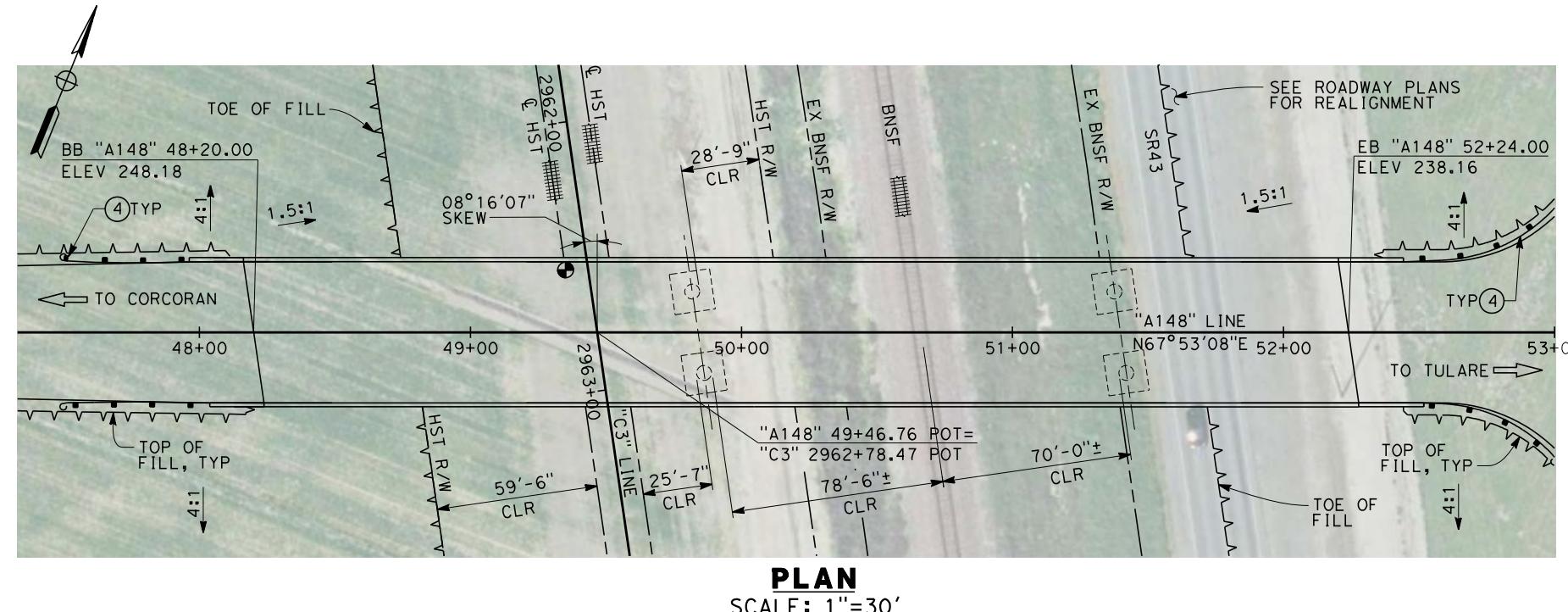
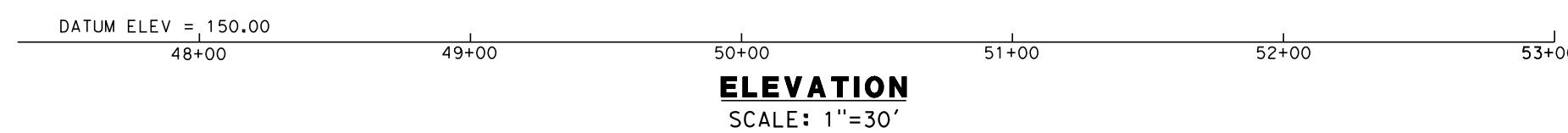
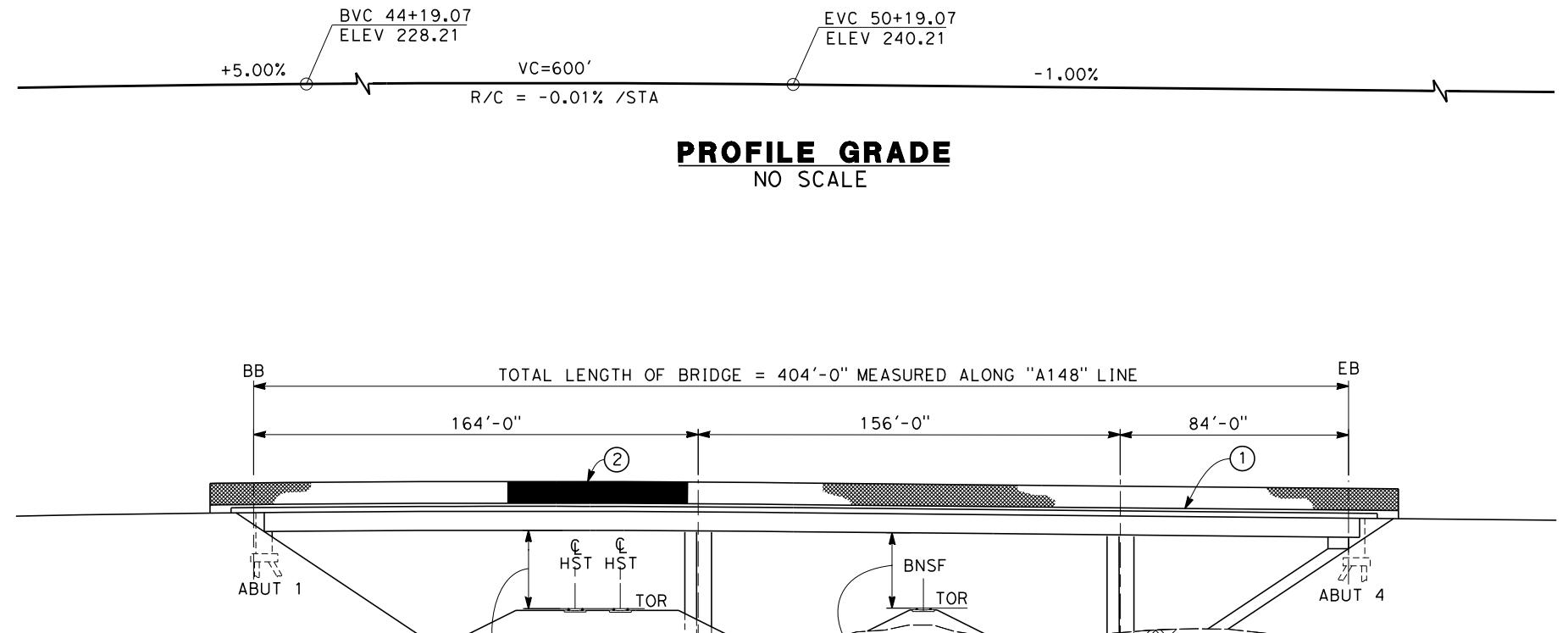
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
OVERHEAD PLANNING STUDY
CORCORAN HWY

TRACT NO.
HSR 06-0003
AWING NO.
ST2244
ALE
AS SHOWN
ET NO.
3 OF 3







TYPICAL SECTION

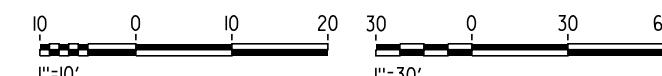
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR
- ⑤ RETAINING WALL

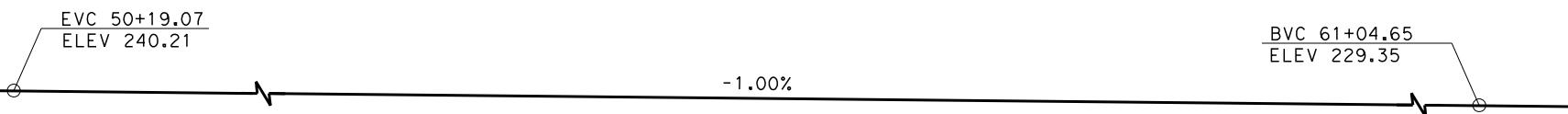


REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY E. MORAN	DRAWN BY D. BARNHART	CHECKED BY B. LUSCOMBE	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION



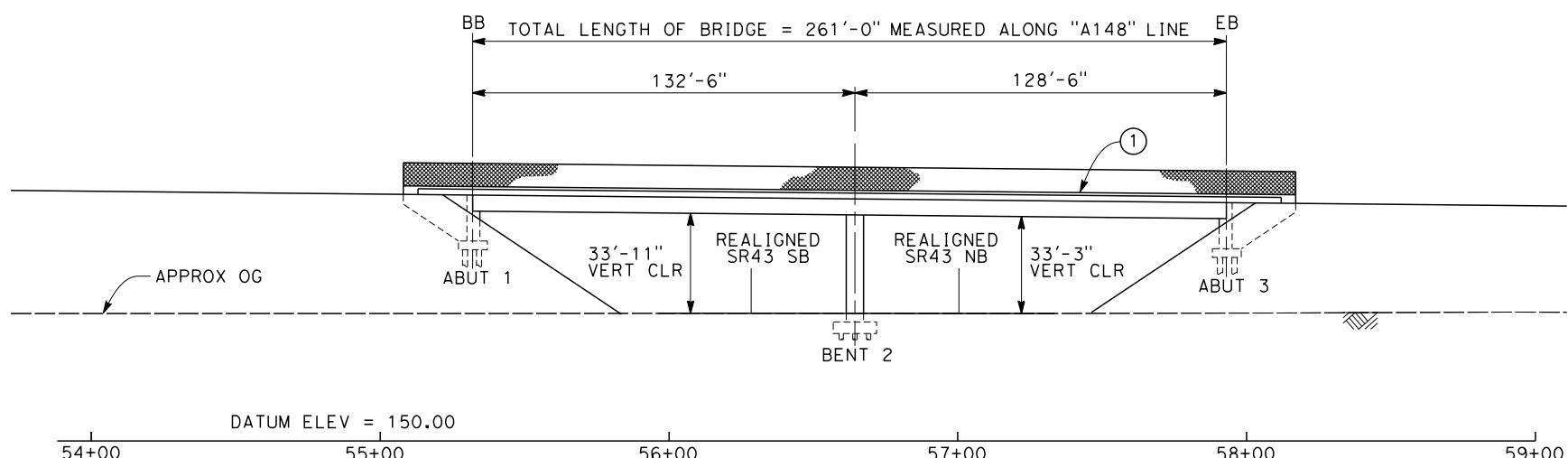
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTON
ALIGNMENT C3
OVERHEAD PLANNING STUDY
AVE 148 WEST

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2281
SCALE
AS SHOWN
SHEET NO.
3 OF 4



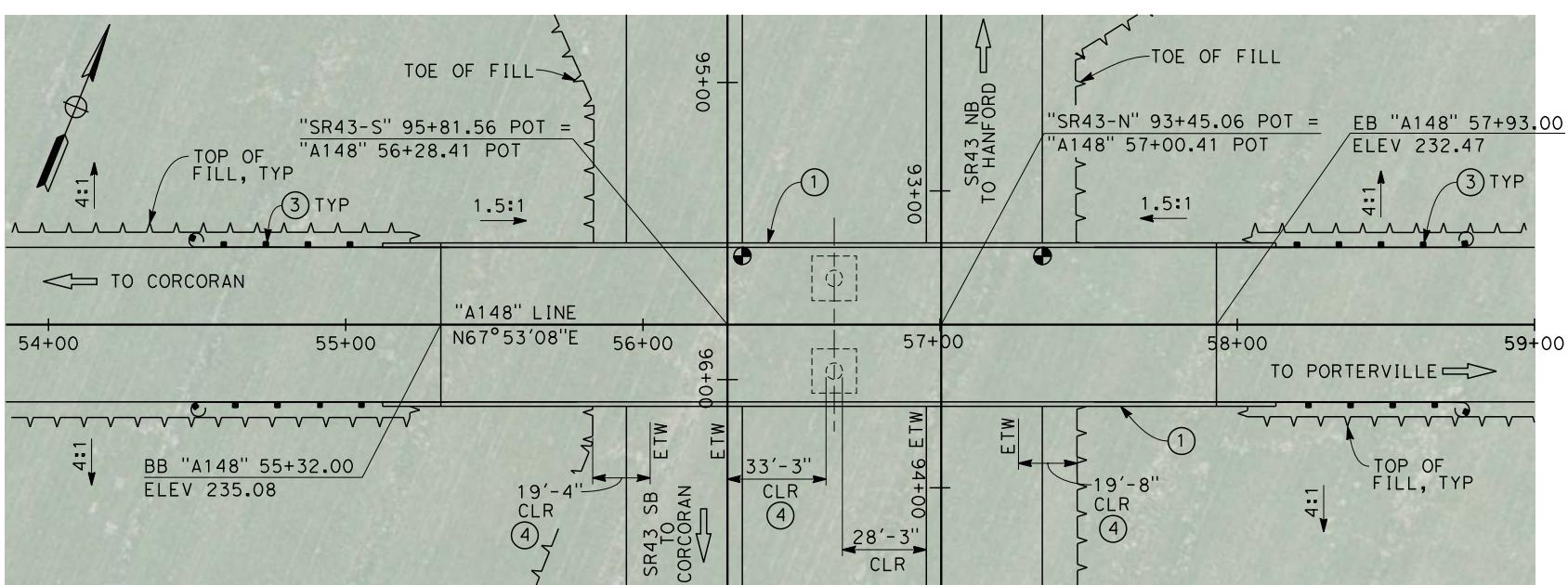
PROFILE GRADE

NO SCALE



ELEVATION

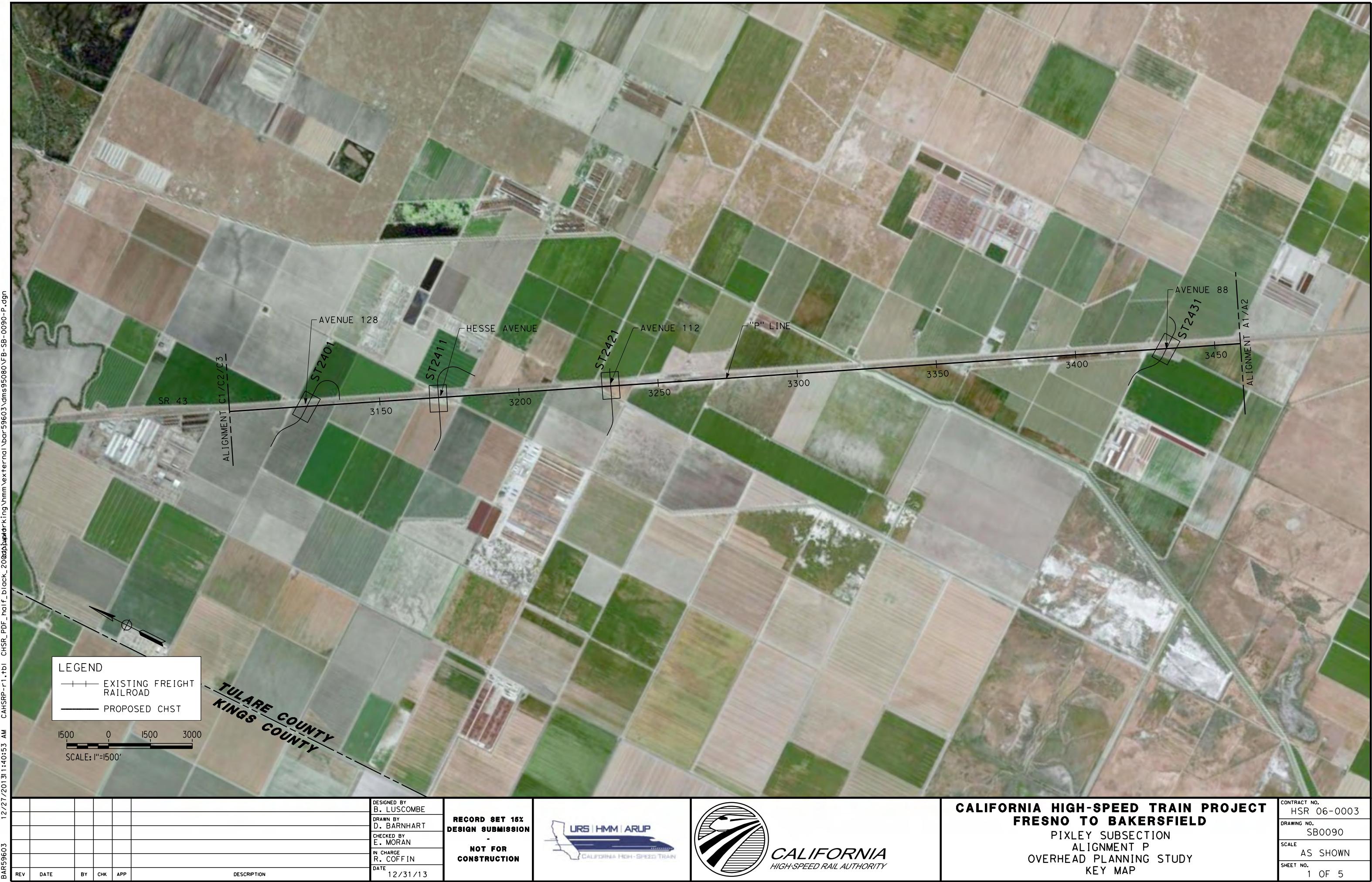
SCALE: 1"=30'

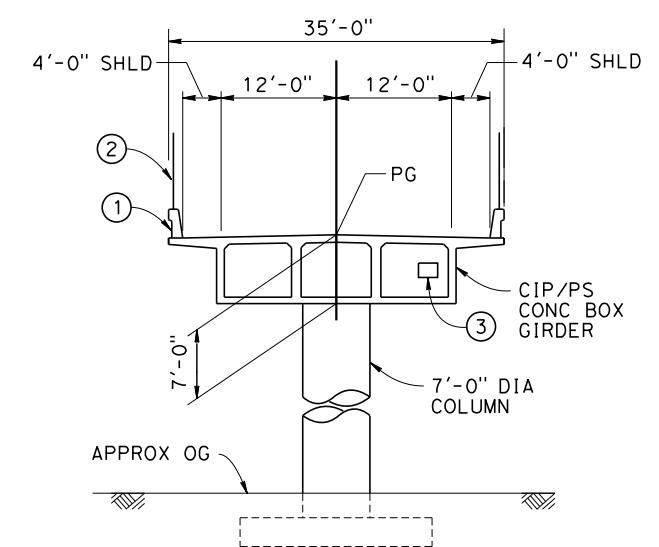
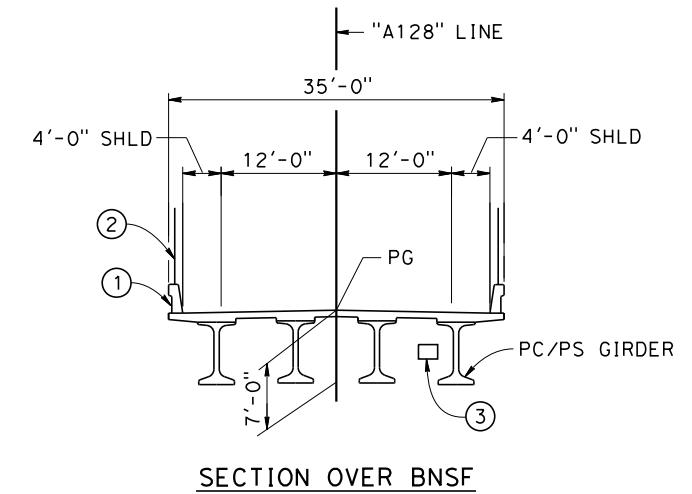
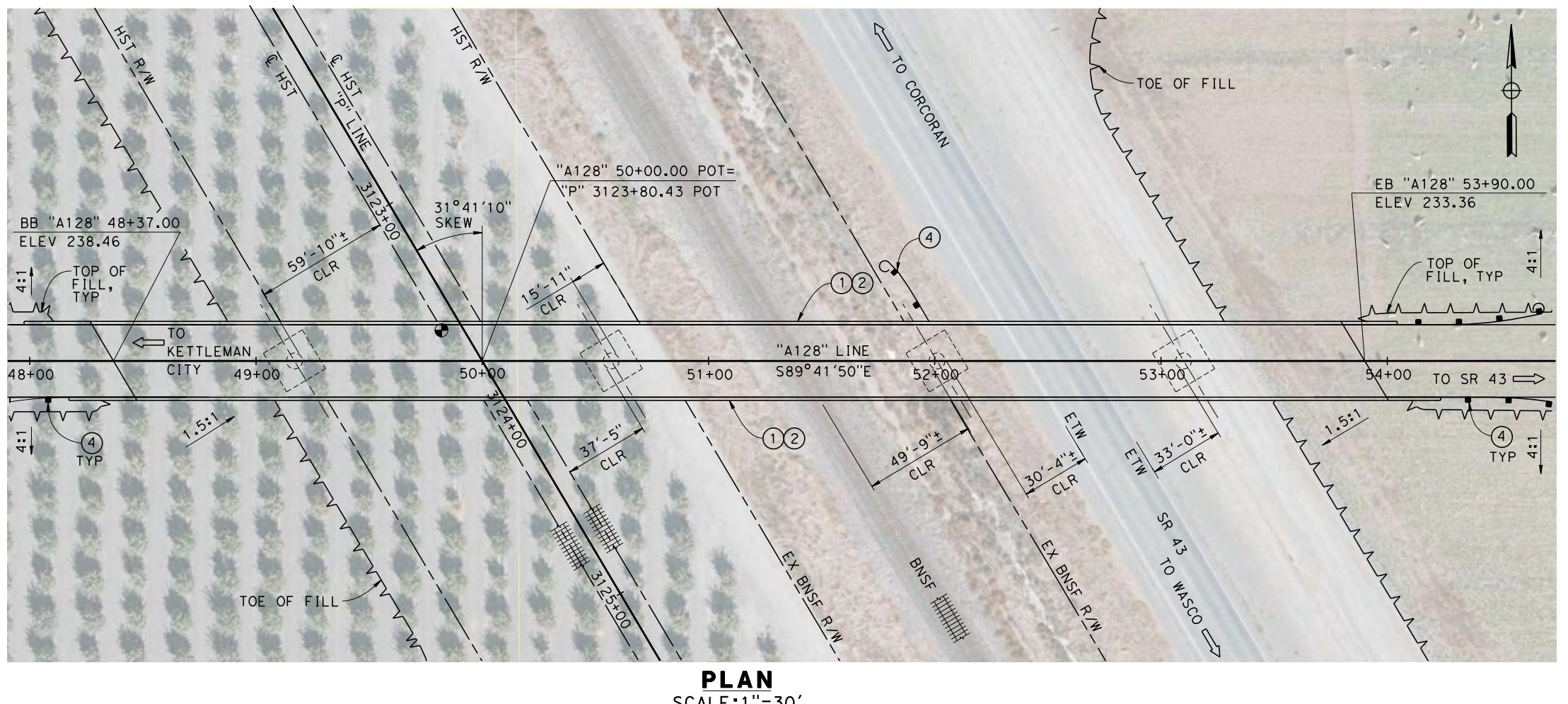
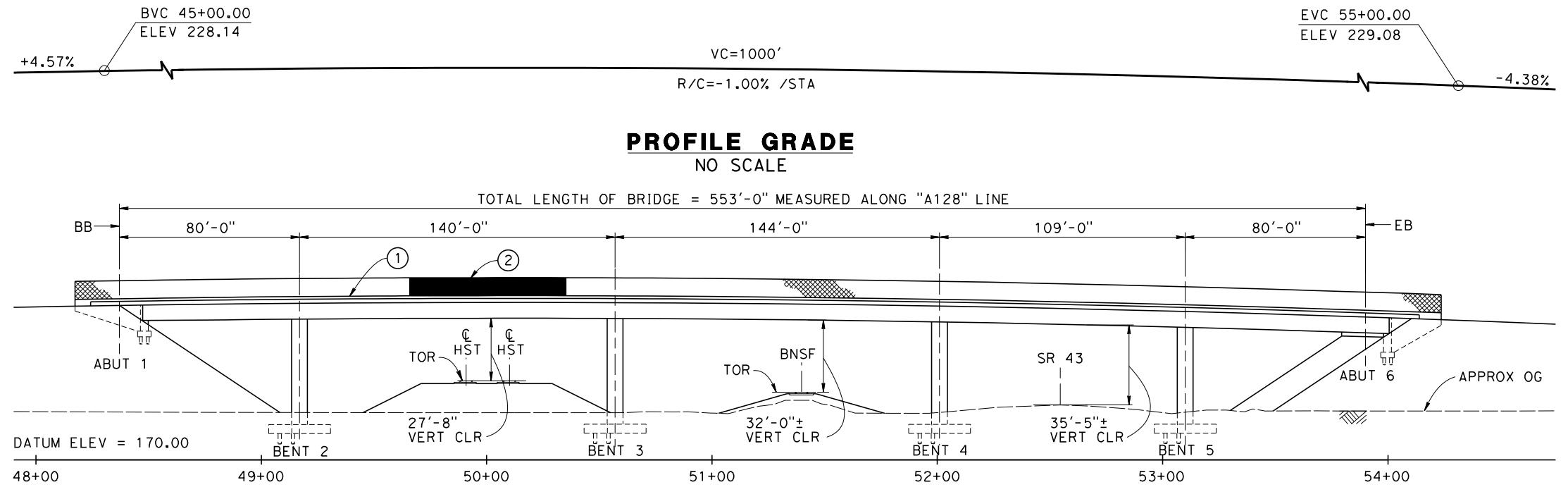


PLAN

SCALE: 1"=30'

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			DRAWN BY D. BARNHART	-		CORCORAN SUBSECTION	DRAWING NO. ST2282
			CHECKED BY B. LUSCOMBE	NOT FOR CONSTRUCTION		ALIGNMENT C3	SCALE
			IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY	OVERHEAD PLANNING STUDY	AS SHOWN
			DATE 12/31/13			AVE 148 EAST	SHEET NO. 4 OF 4
REV	DATE	BY	CHK	APP	DESCRIPTION		





TYPICAL SECTIONS
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

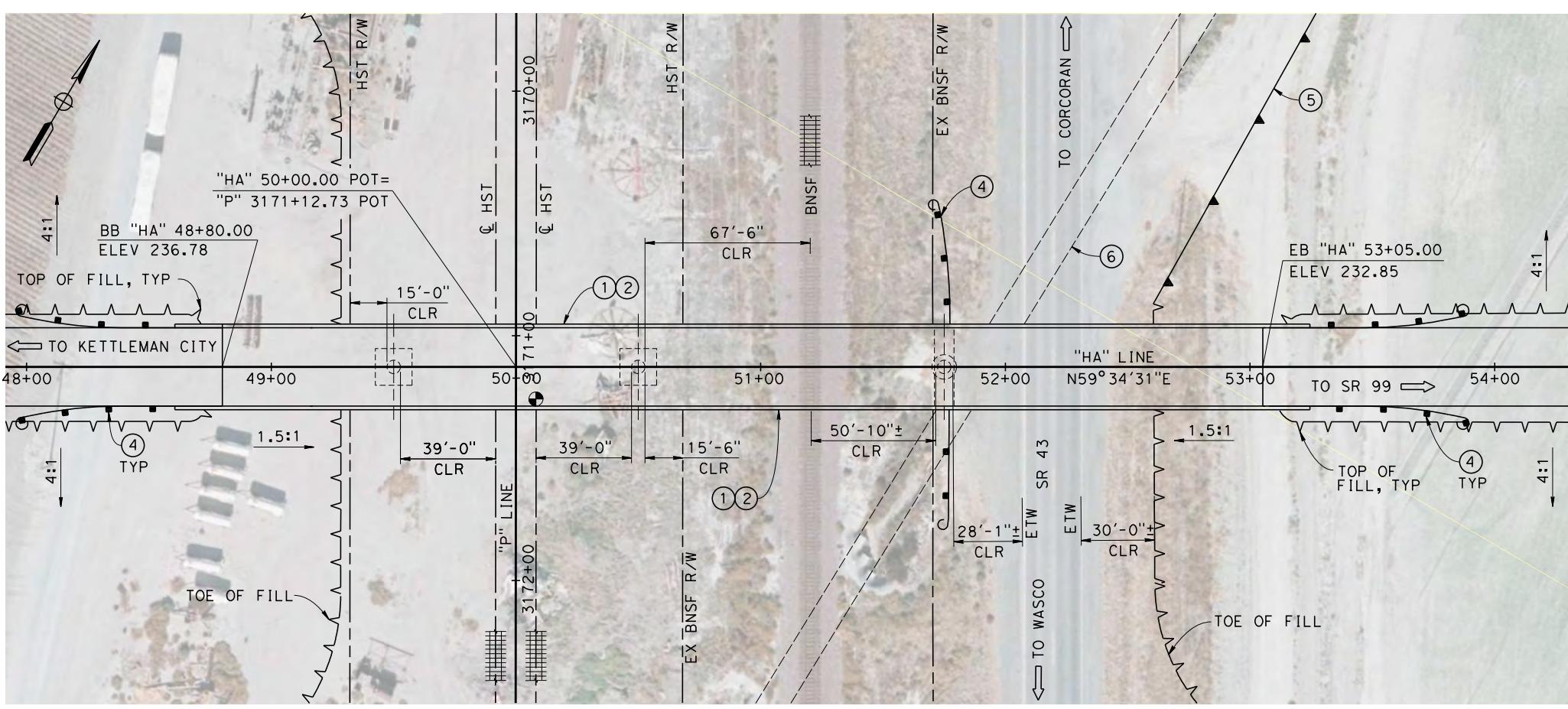
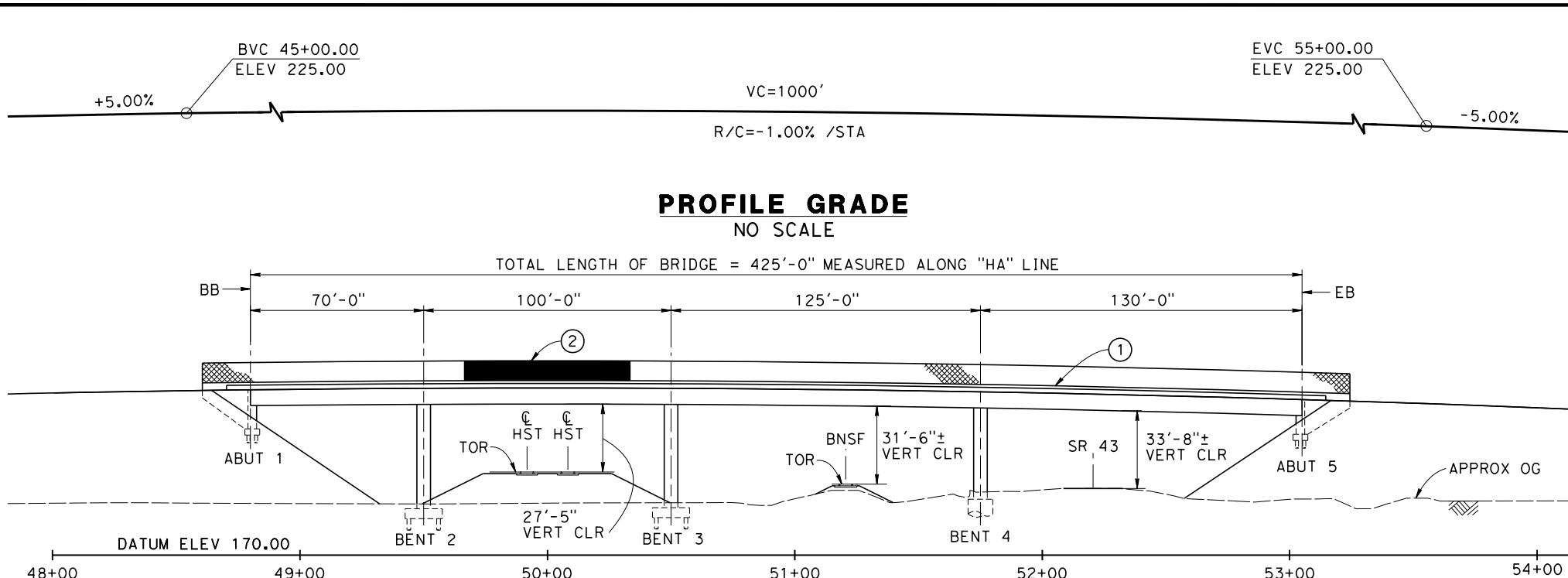
LEGEND:

- (1) CONCRETE BARRIER WITH AR FENCE
- (2) AR FENCE WITH SOLID PLATE OVER HST
- (3) FUTURE UTILITY ENCASEMENT OPENING
- (4) MBGR

10 0 10 20 30 0 30 60
SCALE: 1"=10' SCALE: 1"=30'

12/20/2013 01:48 AM CAHSRP-r1.tfb1 CHSR_PDF_half.black.pltct\working\hmm\external\bars50597\dim595080\NFB-ST1-2401-P.dgn

					DESIGNED BY B. LUSCOMBE	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
					DRAWN BY D. BARNHART	-	-			PIXLEY SUBSECTION ALIGNMENT P OVERHEAD PLANNING STUDY AVE 128	DRAWING NO. ST2401
					CHECKED BY E. MORAN	-	-				SCALE AS SHOWN
					IN CHARGE R. COFFIN	-	-				SHEET NO. 2 OF 5
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE	12/31/13				

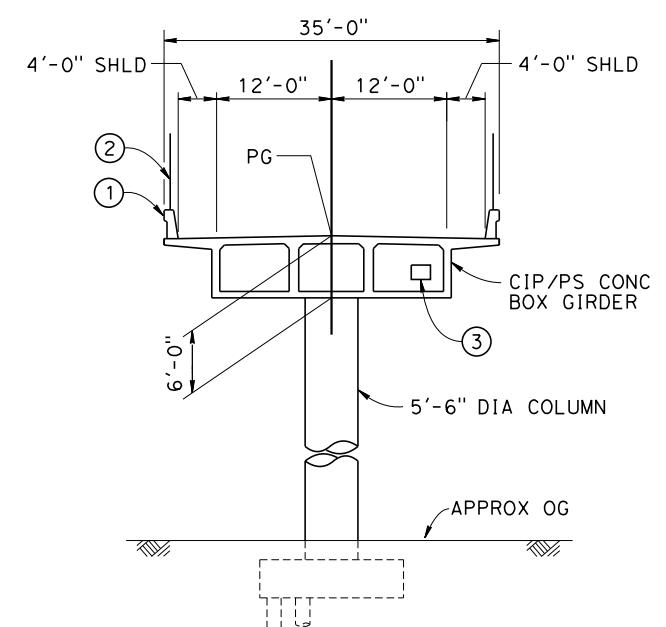
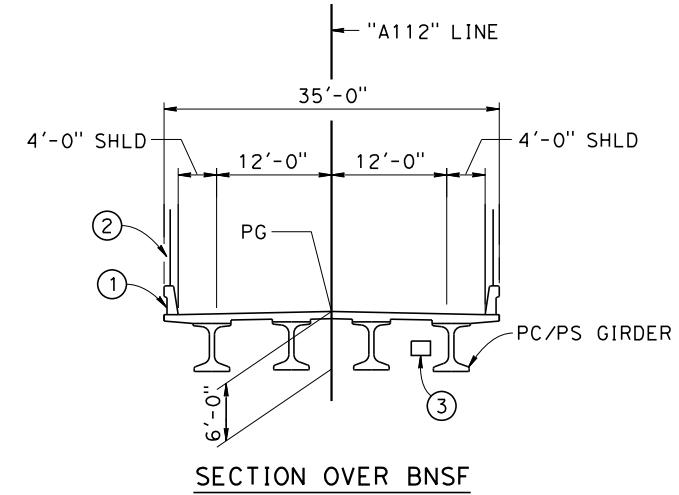
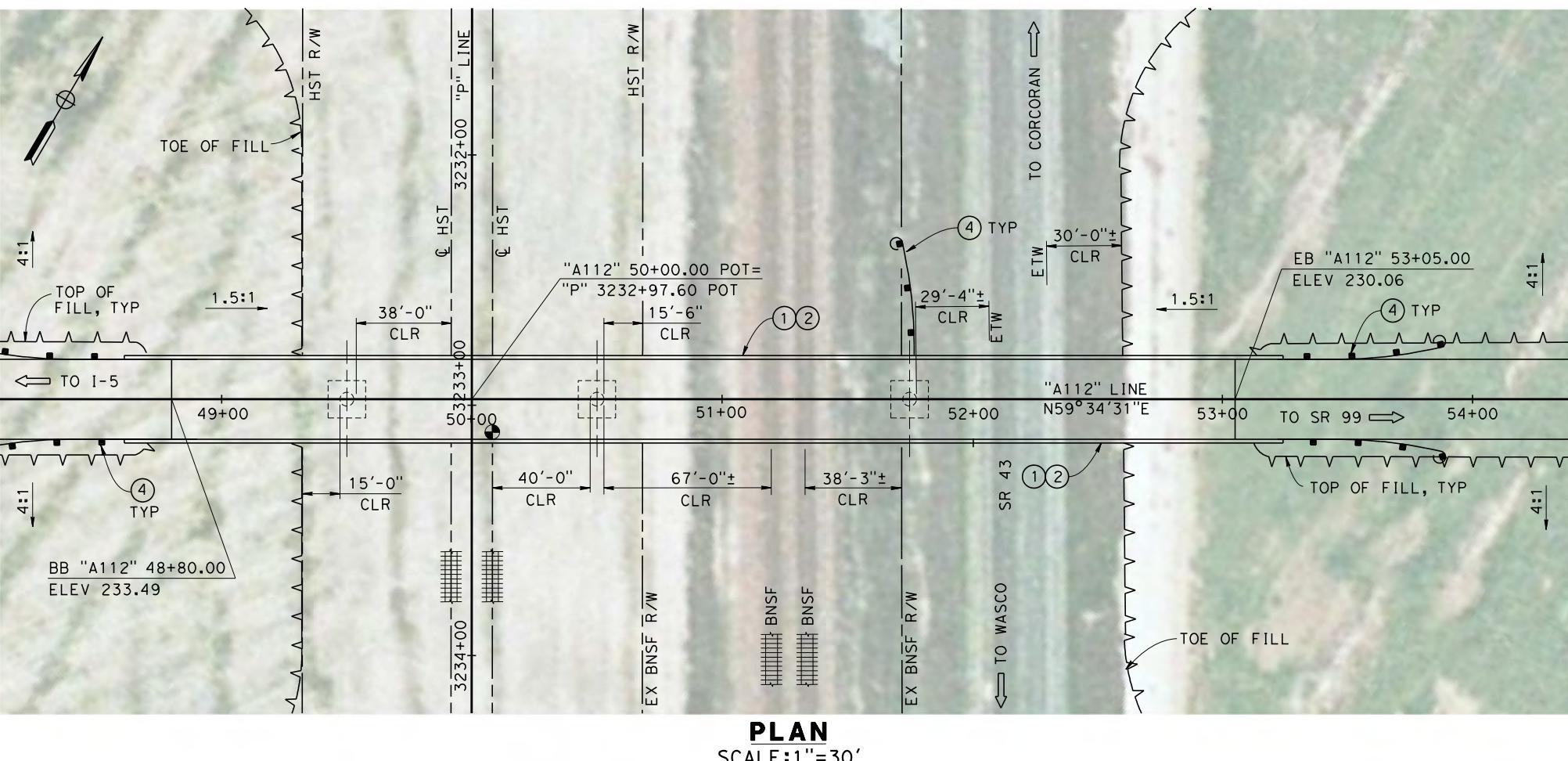
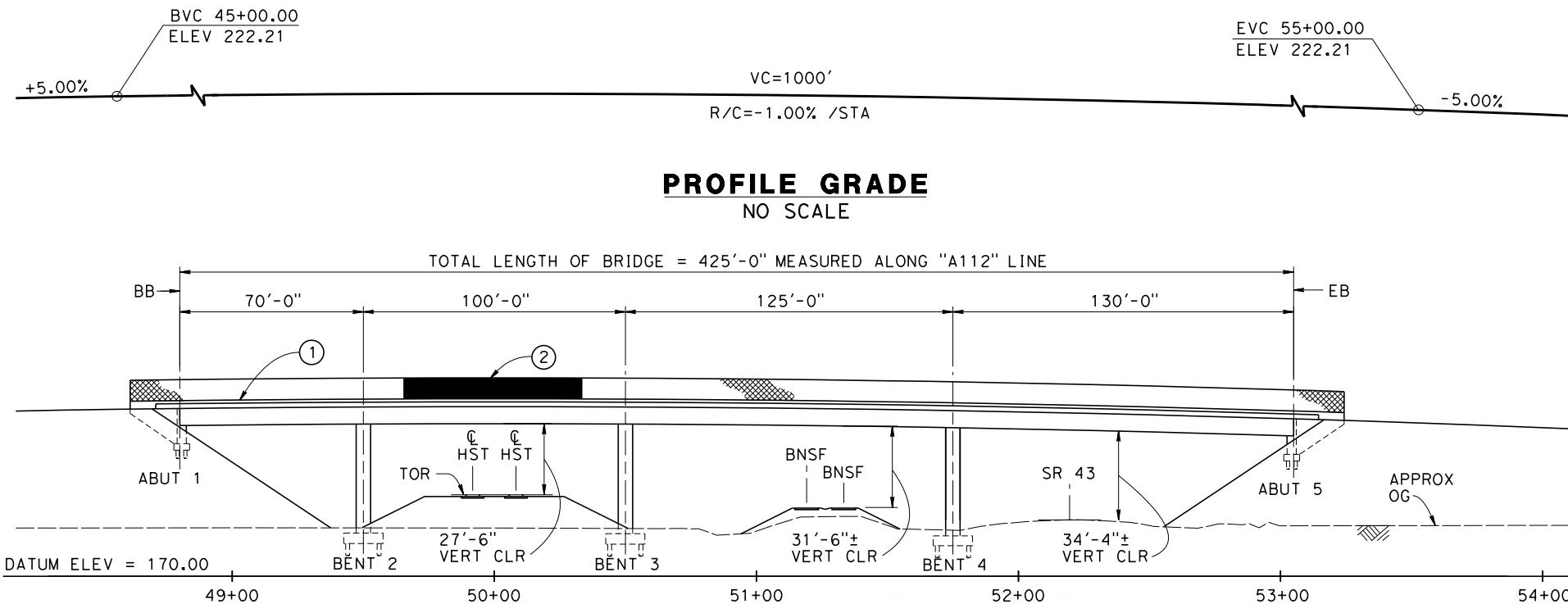


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
OVERHEAD PLANNING STUDY
HESSE AVE

					DESIGNED BY B. LUSCOMBE	RECORD SET 18 DESIGN SUBMISSION NOT FOR CONSTRUCTION
					DRAWN BY D. BARNHART	
					CHECKED BY E. MORAN	
					IN CHARGE R. COFFIN	
					DATE 12/31/13	
REV	DATE	BY	CHK	APP	DESCRIPTION	

CONTRACT NO.
HSR 06-0003
DRAWING NO.
ST2411
SCALE
AS SHOWN
SHEET NO.
3 OF 5



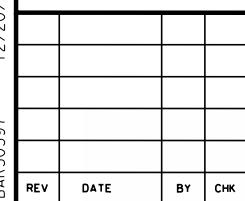
TYPICAL SECTIONS
SCALE: 1"=10'

NOTES:

1. ALL PILES NOT SHOWN
2. FOR MINIMUM VERTICAL CLEARANCES, HORIZONTAL CURVE DATA, AND DETAILS NOT SHOWN, SEE ROADWAY PLANS.

LEGEND:

- ① CONCRETE BARRIER WITH AR FENCE
- ② AR FENCE WITH SOLID PLATE OVER HST
- ③ FUTURE UTILITY ENCASEMENT OPENING
- ④ MBGR

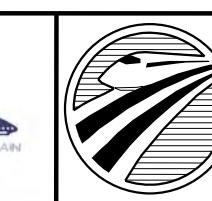


DESIGNED	B. LU
DRAWN BY	D. BA
CHECKED	E. MO
IN CHARGE	R. CO
DATE	12

Y	COMBE
NHART	
R	
A	
IN	
31/13	

**RECORD SET
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



 CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
OVERHEAD PLANNING STUDY
AVE 112

CONTRACT NO.	HSR 06-0003
DRAWING NO.	ST2421
SCALE	AS SHOWN
SHEET NO.	4 OF 5